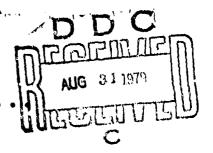
# DEPARTMENT OF DEFENSE ( ) IN-HOUSE RDT&E ACTIVITIES





**30 OCTOBER 1978** 

Management Analysis Report..



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Department of the Air Force

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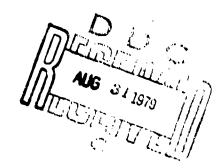
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DEPARTMENT OF DEFENSE IN-HOUSE RDTLE ACTIVITIES

1054692

HAROLD F. DAVIDSON

1 11



130 October 1978

Prepared for:

US ARMY MATERIEL DEVELOPMENT AND READINESS COMMAND 5001 Eisenhower Avenue Alexandria, Virginia 22333

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## FOREWORD

THIS REPORT WAS PREFARED FOR THE US ARMY MATERIEL DEVELOPMENT AND READINESS COMMAND AT THE DIRECTION OF THE CHIEF, RESEARCH, DEVELOPMENT AND ACQUISITION. THIS EDITION IS THE TWELFTH OF A SERIES THAT WAS INITIATED IN 1966.

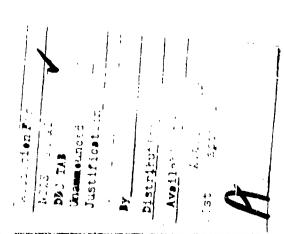
EACH IN-HOUSE RDT&E ACTIVITY OF THE DEPARTMENT OF DEFENSE IS DESCRIBED ON ONE PAGE IN THIS COMPILATION. THE DATA FOR 1978 ARE SUMMARIZED IN TABLES PRECEDING THE MAIN TEXT AND CHARTS AND TABLES ARE PROVIDED FOR EACH SERVICE SHOWING ORGANIZATIONAL RELATIONSHIPS AND COMMAND CHAINS.

ALL CURRENT DOD RDT&E ACTIVITIES WHICH MEET THE REPORT REQUIREMENT OF HAVING AT LEAST 25 PER CENT OF THEIR BUDGET IN RDT&E FUNDS ARE LISTED IN THE CONTENTS ALPHABETICALLY WITHIN EACH DEPARTMENT. SOME T&E FACILITIES WHICH DO NOT MEET THE REQUIREMENT PREVIOUSLY NOTED ARE ALSO LISTED BY SPECIAL REQUEST. ORGANIZATIONAL CHANGES DURING FY 1978 APPEAR IN APPENDIX 1. \(\chi\)

DOD INSTRUCTION 7700.9 WHICH HAS BEEN THE BASIS FOR THIS REPORT SINCE ITS INCEPTION HAS BEEN REPLACED BY A TRI-SERVICE REGULATION, AR 70-63, NAVCOMPTIST 7044.5D, AFR 80-26, ENTITLED DOD IN-HOUSE RDTE ANNUAL ACTIVITIES REPORT, I NOVEMBER 1978. APPENDIX 11 CONTAINS MANY OF THE DEFINITIONS USED IN THIS REPORT AND ARE PROVIDED AS AN ADDITIONAL AID IN USE OF THE REPORT. APPENDIX 111 LISTS SELECTED ABBREVIATIONS AND ACRONYMS. APPENDIX IV LISTS SELECTED KEY WORDS WITH PAGE REFERENCES.

EVERY EFFORT HAS BEEN MADE TO PROVIDE ACCURATE INFORMATION, PARTICULARLY FISCAL DATA. ALL NUMBERS AND STATEMENTS HAVE BEEN THOROUGHLY EXAMINED AND IN ALMOST ALL CASES, REVIEWED WITH THE SUBMITTING AGENCY TO INSURE CORRECTNESS AND CLARITY.

SINCERE APPRECIATION IS EXTENDED TO MRS, EVELYN HUGHES AND HER ASSOCIATES OF THE US ARMY MANAGEMENT SYSTEMS SUPPORT AGENCY (USAMSSA) FOR THEIR EFFORTS AND ASSISTANCE IN PROVIDING A COMPUTER PRINTOUT FROM WHICH THIS REPORT IS PRINTED. SINCERE APPRECIATION IS ALSO EXTENDED TO MRS. JEANETTE MERRITT FOR HER KIND ASSISTANCE, AND TO MR. EUGENE GROSECLOSE OF USAMSSA FOR HIS TECHNICAL TROUBLE SHOOTING WHICH MADE A COMPUTER PRINTOUT POSSIBLE.



# CONTENTS

|                                                          | PAGE   |
|----------------------------------------------------------|--------|
| FOREWORD                                                 | . III  |
| CONTENTS                                                 | . v    |
| SUMMARY: DEPARTMENT OF DEFENSE IN-HOUSE RDT&E FACILITIES | . IX   |
| SUMMARY: DEPARTMENT OF DEFENSE R&D LABORATORIES          | . XVII |
| DEPARTMENT OF THE ARMY                                   |        |
| AEROMEDICAL RESEARCH LABORATORY                          | . 1    |
| AIR DEFENSE BOARD                                        | . 2    |
| AIRBORNE BOARD                                           | . 3    |
| AIRCRAFT DEVELOPMENT TEST ACTIVITY                       | . 4    |
| ARMOR AND ENGINEER BOARD                                 |        |
| ATMOSPHERIC SCIENCES LABORATORY                          | . 6    |
| AVIATION BOARD                                           |        |
| AVIATION ENGINEERING FLIGHT ACTIVITY                     |        |
| AVIATION RESEARCH & TECHNOLOGY LABORATORIES              |        |
| AVIONICS R&D ACTIVITIES                                  |        |
| BALLISTIC RESEARCH LABORATORY                            | _      |
| CHEMICAL SYSTEMS LABORATORY                              |        |
| COLD REGIONS R&E LABORATORY                              |        |
| COLD REGIONS TEST CENTER                                 |        |
| COMBAT SURVEILLANCE & TGT ACQUISITION LAB                |        |
| COMMUNICATIONS & ELECTRONICS BOARD                       |        |
| COMMUNICATIONS R&E COMMAND                               |        |
| CONSTRUCTION ENGINEERING RESEARCH LABORATORY             |        |
| DUGWAY PROVING GROUND                                    | . 19   |
| ELECTRONIC PROVING GROUND                                | . 20   |
| ELECTRONIC WARFARE LABORATORY                            | . 20   |
| ELECTRONICS R&D TECH SUPPORT ACTIVITY                    | . 21   |
| ELECTRONICS TECHNOLOGY AND DEVICES LAB                   | . 22   |
|                                                          | _      |
| ENGINEER TOPOGRAPHIC LABORATORIES                        | . 24   |
| ENGINEER WATERWAYS EXPERIMENT STATION                    | . 25   |
| FIELD ARTILLERY BOARD                                    | . 26   |
| FIRE CONTROL & SMALL CAL WPNS SYSTEMS LAB                | . 27   |
| HARRY DIAMOND LABORATORIES                               | . 28   |
| HUMAN ENGINEERING LABORATORY                             | . 29   |
| INFANTRY BOARD                                           |        |
| INSTITUTE OF DENTAL RESEARCH                             | . 31   |
| INSTITUTE OF SURGICAL RESEARCH                           | . 32   |
| INTELLIGENCE & SECURITY BOARD                            | . 33   |
| KWAJALEIN MISSILE RANGE, MARSHALL ISLANDS                |        |
| LARGE CALIBER WPNS SYSTEMS LAB                           | . 35   |
| LETTERMAN ARMY INSTITUTE OF RESEARCH                     | . 36   |
| MATERIALS AND MECHANICS RESEARCH CENTER                  | . 37   |
| MATERIEL SYSTEMS ANALYSIS ACTIVITY                       | . 38   |
| MATERIEL TESTING DIRECTORATE                             |        |
| MEDICAL BIOENGINEERING R&D LABORATORY                    | . 40   |
| MEDICAL PAD COMMAND                                      | . 70   |

# DEPARTMENT OF THE ARMY (CONTINUED)

| PAGI                                             | E. |
|--------------------------------------------------|----|
| MEDICAL RESEARCH INST OF INFECTIOUS DISEASES     | ,  |
| MISSILE RESEARCH & DEVELOPMENT COMMAND           |    |
| MOBILITY EQUIPMENT R&D COMMAND                   | -  |
| NATICK R&D COMMAND                               | •  |
| NIGHT VISION & ELECTRO-OPTICS LABORATORY         |    |
| RESEARCH INST FOR BEHAVIORAL & SOCIAL SCIENCES 4 | 7  |
| RESEARCH INSTITUTE OF ENVIRONMENTAL MEDICINE     | 8  |
| SIGNALS WARFARE LABORATORY                       | 9  |
| TANK - AUTO R&D COMMAND                          | D  |
| TROPIC TEST CENTER                               | 1  |
| WALTER REED ARMY INSTITUTE OF RESEARCH           | 2  |
| WHITE SANDS MISSILE RANGE                        | 3  |
| YUMA PROVING GROUND                              | 4  |
|                                                  |    |
|                                                  |    |
| DEPARTMENT OF THE NAVY                           |    |
|                                                  | _  |
| AEROSPACE MEDICAL RESEARCH LABORATORY            | _  |
| AIR DEVELOPMENT CENTER                           | -  |
| AIR ENGINEERING CENTER                           | •  |
| AIR PROPULSION CENTER                            |    |
| AIR TEST CENTER                                  |    |
| ARCTIC RESEARCH LABORATORY                       | -  |
|                                                  |    |
| BIOSCIENCES LABORATORY                           |    |
| CIVIL ENGINEERING LABORATORY                     |    |
| CLOTHING & TEXTILE RESEARCH FACILITY             |    |
| COASTAL SYSTEMS CENTER                           | _  |
| DAVID W. TAYLOR SHIP R&D CENTER                  | -  |
| DENTAL RESEARCH INSTITUTE, NTC                   | •  |
| ENVIRONMENTAL PREDICTION RESEARCH FACILITY       |    |
| EXPLOSIVE ORDNANCE DISPOSAL FACILITY             | -  |
| HEALTH RESEARCH CENTER                           |    |
| MEDICAL RESEARCH INSTITUTE                       |    |
| MEDICAL RESEARCH UNIT NO. 2                      |    |
| MEDICAL RESEARCH UNIT NO. 3                      |    |
| NATIONAL FARACHUTE TEST RANGE                    | •  |
| OCEAN R&D ACTIVITY                               |    |
| OCEAN SYSTEMS CENTER                             |    |
| ORDNANCE MISSILE TEST FACILITY                   |    |
| PACIFIC MISSILE TEST CENTER                      |    |
| PERSONNEL RESEARCH & DEVELOPMENT CENTER          |    |

# DEPARTMENT OF THE NAVY (CONTINUED)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PAGE       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| RESEARCH LABORATORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 81         |
| SUBMARINE MEDICAL RESEARCH LABORATORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 82         |
| SURFACE WEAPONS CENTER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 83         |
| UNDERSEA RANGES DEPARTMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 84         |
| UNDERWATER SYSTEMS CENTER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 85         |
| WEAPONS CENTER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 86         |
| WEAPONS EVALUATION FACILITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 87         |
| DEPARTMENT OF THE AIR FORCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |
| AERO PROPULSION LABORATORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 88         |
| ARMAMENT DEVELOPMENT AND TEST CENTER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 89         |
| ARNOLD ENGINEERING DEVELOPMENT CENTER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -          |
| AVIONICS LABORATORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 91         |
| ENGINEERING SERVICE CENTER - DET 1 (CEEDO)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 92         |
| FLICHT DYNAMICS LABORATORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 93         |
| FLIGHT TEST CENTER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 94         |
| FRANK J. SEILER RESEARCH LABORATORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 95         |
| GEOPHYSICS LABORATORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 96         |
| HUMAN RESOURCES LABORATORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 97         |
| MATERIALS LABORATORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |
| ROCKET PROPULSION LABORATORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 99         |
| ROME AIR DEVELOPMENT CENTER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 100        |
| SCHOOL OF AEROSPACE MEDICINE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 101        |
| SPACE & MISSILE TEST CENTER (DET 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |
| SPACE AND MISSILE TEST CENTER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 103        |
| WEAPONS LABORATORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 104<br>105 |
| 4950 TEST WING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 106        |
| 6585TH TEST GROUP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |
| Coolin lest groot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 107        |
| ARMED FORCES RADIOBIOLOGY RSCH INSTITUTE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 108        |
| APPENDIXES:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |
| I. CHANGES IN ORGANIZATION OR NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 109        |
| - visitions in olioppination of them in the contract of the co |            |
| II. DEFINITIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |
| IV. KEY WORDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 44         |

# TABLES

|       |             |                                                     | P | AGE   |
|-------|-------------|-----------------------------------------------------|---|-------|
| TABLE | 1.          | ARMY RDTSE ACTIVITIES, PROGRAM AND PERSONNEL DATA . |   | X     |
| TABLE |             | ARMY RDT&E FACILITIES DATA                          |   |       |
| TABLE |             | NAVY RDTSE ACTIVITIES, PROGRAM AND PERSONNEL DATA . |   |       |
| TABLE |             | NAVY RDTRE FACILITIES DATA                          |   | X111  |
| TABLE |             | AIR FORCE RDT&E ACTIVITIES, PROGRAM AND PERSONNEL   |   |       |
|       | - (         | DATA                                                |   | XIV   |
| TABLE | 6.          | AIR FORCE RDTSE FACILITIES DATA                     |   | XV    |
| TABLE |             | DOD RDTSE ACTIVITIES, PROGRAM AND PERSONNEL DATA    | • | XV I  |
| TABLE | 1A.         | ARMY R&D LABORATORIES, PROGRAM AND PERSONNEL DATA . | • | XV111 |
| TABLE | 2A.         | ARMY R&D FACILITIES DATA                            |   | X1X   |
| TABLE | 3A.         | NAVY R&D LABORATORIES, PROGRAM AND PERSONNEL DATA . | ٠ | XX    |
| TABLE | <b>4</b> A. | NAVY R&D FACILITIES DATA                            | • | XXI   |
| TABLE | 5A.         | AIR FORCE RAD LABORATORIES, PROGRAM AND PERSONNEL   |   |       |
|       |             | DATA                                                | ٠ | XX11  |
| TABLE | 6A.         | ATR FORCE R&D FACILITIES DATA                       |   |       |
| TABLE | 7A.         | DOD RDT&E FACILITIES DATA                           | ٠ | VTXX  |
| TABLE | 8.          | ARMY R&D LABORATORY ORGANIZATIONAL RELATIONSHIPS    |   |       |
| TABLE |             |                                                     | ٠ | XXV11 |
| TABLE | 10.         | AIR FORCE R&D LABORATORY ORGANIZATIONAL             |   |       |
|       |             | RELATIONSHIPS                                       | ٠ | XXVII |
|       |             |                                                     |   |       |
|       |             | CHARTS                                              |   |       |
|       |             |                                                     |   |       |
|       |             | ATORIES COMMAND CHAIN                               |   |       |
| YVAN  | LABORA      | ATORIES COMMAND CHAIN                               | • | XXX   |
| ATO V | aber 1      | ARODATODIES COMMANICONAIN                           |   | 1222  |

# SUMMARY

# DEPARTMENT OF DEFENSE IN-HOUSE ROTGE FACILITIES PROGRAM DATA FOR EY 1978

| TOTAL ANNUAL PROGRAM           | (MILLIONS) |
|--------------------------------|------------|
| YOTAL INHOUSE PROGRAM          | 6586.770   |
| TOTAL ROTEL PROGRAM            | 3111.415   |
| YOTAL INHOUSE ROTEE            | 3634.697   |
| TOTAL ANNUAL OPERATING COST    | 2031.345   |
| AND THE PERSONS AND THE PERSON | 823.883    |

# PERSONNEL DATA LEND DE SY 19781

| PERSONNEL | AUTHORIZED | TITAL | TOTAL         |
|-----------|------------|-------|---------------|
|           | Strength   | PHO   | PROFESSIONALS |
| MILTTARY  | 23678      | 725   | 6019          |
| CIVILIAN  | 65725      | 3308  | 27604         |
| TOTAL     | 89403      | 4123  | 33643         |

# PHYSICAL FACILITYES (END OF FY 1978)

| ACRES                                          | 9194364                                         |
|------------------------------------------------|-------------------------------------------------|
| SPACE LTHOUSANDS OF SO FTY                     |                                                 |
| LARDRATORY<br>ADMINISTRATIVE<br>OTHER<br>TOTAL | 29347.486<br>8937.379<br>57464.532<br>95749.397 |
| COST (MILLIONS)                                |                                                 |
| REAL PROPERTY<br>FOULPMENT<br>TOTAL            | 4503.165<br>3827.542<br>8325.707                |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | KIONGI   | WEINS DATA (I | #11110W   | <b>•</b>                                |                                               | 94          | 1          | TAU SEATON OF | 4           |            |
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| INSTALLATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | TOTAL         | TCTAL     | The way of E                            | TVAUL                                         | TOTAL       | ÇI<br>4    | Š             | _<br>و      | 304        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TOTAL    | Two Dist      | POTER     | 431.0                                   | ٠<br>٢                                        | 2           | F1.        | 2             | 7           | \.         |
| AFPEMEDICAL PESEAPCH LABORATORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ٠                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6.369    | 4.105         | 3.26      | 2.004                                   | •                                             | 7           | ^          | نه            | <b>5</b> 6  | <b>5</b>   |
| ATO DEFENSE ACARC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | FL PACOATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6.071    | 6.971         | 2.072     | 2.072                                   | 111                                           | •           | r          | ڻ             | ś           |            |
| AIPEOFNE RCAPD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ET.PEACO.M.C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3.556    | 3.406         | 7.617     | 2.017                                   | ř.                                            | 7           | c.         | ¢             | <b>*</b>    | ·          |
| AIRCRAFT GEVELOPMENT TEST ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | FT.PUCKFD.AL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10.229   | 6.706         | 6.747     | 3.190                                   | 717                                           | ç           | ٥          | ~             | <b>%</b>    | 12         |
| CAFUE BERZINEED BURBO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | FT. FHOX . KV.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.63.5   | 4.435         | 6.12      | 6.13                                    | 232                                           | 101         | 0          | ^             | 2           | 1.5        |
| ATMCSPMERIC SCIENCES LARGHATCRY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | BELLE CANDO BE A. C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 17.192   | 6.324         | 16,405    | 1,067                                   | 417                                           | 174         | O          | <u>^</u>      | 13          | ٠.<br>•    |
| AVIATION BCAPD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | FT.SUTKFO,BL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2.922    | 2.629         | 1.4.67    | 1.374                                   | 2                                             | 'n          | Ç          | -             | 20          | 13         |
| AVIATION SYCINSEPING SLIGHT ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | FOWAPDS ASPACE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5.278    | 5.270         | 4.349     | 4.349                                   | 4.4                                           | # C         | O          | Ø             | 21          | 3.6        |
| AVIATION PESSAPCH & TECHNOLTCY LAPCALTOPIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | MOSEETT FIELD, FA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 35.697   | 17,001        | 34.105    | 14.351                                  | <b>3</b> 6                                    | 564         | •          | ጲ             | 13          | 233        |
| AVICAICS P E D ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | FT. HOWNING A. J.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 17.347   | 407.0         | 16,756    | 5.771                                   | -1                                            | <b>7</b> 01 | ٥          | u.            | ۲           | 130        |
| PALLISTIC PESEAPCH LABORATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CHEST ADEA NEEDEST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 69.103   | 30.635        | 45,382    | 28.230                                  | 2                                             | \$25        | ~          | 1 02          | 15          | 372        |
| 大のにかったりので いまはたい人 こうにまなるし                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | APEROCES POURS PROFILE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 73.619   | 45,735        | 48.272    | 35,758                                  | 125                                           | 670         | 0          | 25            | 7           | 510        |
| 大きの かんきょう いっこう しょうしょうしょうしょうしょうしょうしょうしょうしょうしょう しょうしょう しょうしょう しゅうしゅう しゅう                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | T. A. D. S. C. A. A.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 7.4.5    | R . 76.3      | 5.022     | 3.56                                    | 7                                             | 24.3        | -          | : -           | ¥           | 178        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | APO CERTIFIEN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8.21A    | 214           | 4.11.     | 4.1.4                                   | 28.7                                          | , ,         | ٠,         | · c           | , e.        |            |
| THE PROPERTY OF THE PROPERTY O |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6.6.917  | C # 4 - 2     | 15.077    | 4.004                                   | · 5                                           | 172         | 0          | ٠,            | . 0         | 130        |
| CONTRACTOR TO CONTRACTOR DO TO CONTRACTO | ET. COPPERSON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          | 94.60         | 6.344     | 0.346                                   | . 2                                           |             | ی د        | ی ر           | 6           |            |
| CAMPAGU C U G VXCHTUVXCACO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FT BURBUILLE A. D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 41.029   | 7.119         | 35.205    | 404.6                                   | 10                                            | 4.<br>4.    | u          | 2             | •           | 234        |
| art Hourssan Saladakishi walionalshab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CHAMPAIGN, IL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 9.165    | 7.653         | 6.040     | 5.505                                   | •                                             | 707         | Ö          | 30            | (F)         | 128        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DISSEAN OFF.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 24.893   | 23.197        | 18.0F2    | 17.52                                   | 163                                           | £34         | -          | -             | 13          | 7.4        |
| ELECTORY PROVINC CAMBRID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FT.HI.BCHITCHA.AD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 17.602   | 15.465        | 7.865     | 6.475                                   | 575                                           | 213         | 0          | ~             | 53          | **         |
| FECTSONIC WAPFASE LAFTATORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | できる。日本の日本のでは、たは                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 94,642   | 22 .427       | 34,973    | 16.716                                  | M.                                            | 412         | -          | •             | •           | 224        |
| TINITE FOR STANK STANKE AND STANK | FT WORKSHIM W. J.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5.043    | 6.085         | 5.749     | 5.748                                   | ٠                                             | 7           | 0          | O             | _           | 3.7        |
| ٠                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | The application by                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 29.721   | 13.250        | 20.645    | 13.164                                  | •                                             | 285         | 0          | 32            | O           | 171        |
| v.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | FT. RELVOTE VAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 26.405   | 19,363        | 24.344    | 00                                      | 16                                            | 260         | -          | 9             | •           | 17.8       |
| PHOLINER MATERIANS EXPERIMENT CTATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ON CALEDROIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A. 78 E. | 141.11        | 14.504    | 12.797                                  | 3.7                                           | 1275        | ^          | ٤             | 3.1         | AFE        |
| FIELD APTILLERY BOAUS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | FT.STEL POR.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3.446    | 3.446         | 1.054     | 1.054                                   | 157                                           | 3,5         | ø          | ¢             | 3.6         | 4          |
| FIRE CONTROL & SMALL CAL. MPNS SYSTS LAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | SUVER SALL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 614.37   | 24.943        | 21.952    | 11,264                                  | 5                                             | و.<br>د.    | ت          | 26            | 13          | 347        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | MASHINGTON, D.C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 124.773  | 41.250        | 69.528    | 30.36                                   | •                                             | 1104        | ~          | 5             | •           | F0#        |
| HUMAN ENGINEEDING LAPPAINBY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Aprobers par. Co NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 495.4    | FEC. 4        | 7.77      | 6.249                                   | r c                                           | 142         |            | 2             | 13          | 106        |
| TREANTRY ECAFO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | FT.PFWATMC.CA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3.744    | 3.74          | 1.500     | 1.540                                   | 124                                           | ¥.          | ပ          | C)            | 13          | <b>v</b>   |
| INSTITUTE OF DENTAL PESFANCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | *い。しゃないよいな人工の中本                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3-375    | 2.363         | 2.616     | 1.057                                   | 63                                            | 24          | en ;       | ^             | 11          | 10         |
| THSTITUTE OF SUPCIONE PREFACT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | THE PROPERTY OF THE PARTY OF TH | 4.116    | 4.116         | 2000      | 7.000                                   | 1 1                                           | O I         | <u>.</u>   | 4. 1          | <b>=</b> :  | 0 '        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4 C C T  | 452.0         | 1.091     | 1 m m m m m m m m m m m m m m m m m m m | 60 <b>1</b>                                   | - 1         | ပ          | <b>~</b> (    | <b>\$</b> : | • ;        |
| FWAJALETA MINCILE PANCE, WASSMALL ISLANDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | TOTAL ROTAL TOTAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 679.46   | 277           | 95.221    | 4.4.73                                  | 2.4                                           | 601         | <b>o</b> ( | o ;           | P (         | 3.5        |
| LABOR CALIFORN METADORS SYSTEMS LAG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 480.841  | 542.59        | D ( ) ( ) | 013.14                                  | ~ :                                           | 7.73        | 0 (        | 7 ;           | <u>.</u>    | 4 · c      |
| THE CHARLES WATER TANKS THE TRANSPORT OF THE PROPERTY OF THE P | CANTO POST CONTRACTOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | N        | V0.00         | 1000      | 10.01                                   | , <u>, , , , , , , , , , , , , , , , , , </u> | 1           |            | : :           |             | υ <b>τ</b> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 10.100   | 12 525        | 16 401    | 764 0                                   |                                               |             | ٠ (        | ; ;           |             | · 4        |
| できらい しんじん しょうさいしん きんきじょうかい かんしょうしょう まんせいり でんしょう かんしょう かんしゅう アンドラング アンドラング アンドラング                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 30 1133003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 100      | 47.74         | 100.15    | 30.366                                  | 225                                           | 7           | ) t        | ; ;           | 4 6         | 201        |
| AGUSTACION TO CONTRACTOR STATE OF THE STATE  | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4.743    | 4.243         | 3.787     | 7.767                                   | *                                             | 10          | `          | 12            | 7           | 4          |
| PROTON B C O COMPAND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | DE TO TOTAL SHED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 26.952   | 26.052        | 24.397    | 24.397                                  | e.                                            | 6           | 54         | -             | 1,1         | m          |
| SHOTHER STOLL DENNE HE LENE HELD I TELLINE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CT_DETPICK WO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 14.417   | 11.812        | 15,71     | P.171                                   | 405                                           | 101         | # ·        | 7.            | 301         | 57         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PEDSTONE APSENAL-AL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 97.549   | 67.49E        | 57.745    | 我就是"我們                                  | 56                                            | 990         | o          | a,            | · <u>)</u>  | 670        |
| POPILITY EMITS & D COMPAND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CT.PFLVCIR./A.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 150.692  | 45.429        | 55.02P    | 27.34#                                  | 2                                             | 1264        | -          | <b>5</b> 0    | 25          | 31.        |
| WATICK SET COMMAND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NATICK, MA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 49.708   | 36.884        | 23.722    | 12.740                                  | 104                                           | 1001        | <b>W</b> 1 | *             | 7.2         | 227        |
| TRO CPTICS LAS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | FT.EFLWID.YA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 607-16   | 20.984        | 33.705    | 14.74                                   | 27                                            | 421         | Ø          | 49            | •           | 777        |
| PESFAPCH INST FOP BEHAVIOPAL & SCCIAL SCI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | WASHINGTON-C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 24.237   | 11.533        | 23.502    | 10.798                                  | 36                                            | 227         | ۴.         | 143           | 2.0         | 727        |
| RICH INSTITUTE OF FRVIPONEMTAL MEDICINE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | WATTER, MA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5.205    | 5.265         | 3,906     | 3,906                                   | 1                                             | 6           | H١         | ä             | £,          | <b>2</b> C |
| AGULTOUGT BOTTOTA STRAIGH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | VINT HILL, VA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 66.675   | 4.089         | 26.552    | 7.467                                   | ý                                             | 163         | 0          | <b>u</b> ,    | 7.1         | 5.7        |
| TANK-AUTO P C COMMAND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | WAPP F. (+ MT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 137.723  | 16.039        | 19.077    | 7.791                                   | 7.7                                           | 271         | -          | ٢             | 13          | 157        |
| tandle test center                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | FT.CLAYTON.C.7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 750-7    | 3.729         | 2.720     | 2.555                                   | ٥                                             | 3           | 0          | e,            | <u>.</u>    | <b>6</b>   |
| HDEVSSE BEED APMY THETTER OF BESCADEH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | WASHIMETPN.D.C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 205-77   | 20-124        | 36.06     | 21,660                                  | 466                                           | 177         | 123        | W.            | 438         | 211        |
| WHITE SANDS MISSILE PANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | WHITE SUMBSON. W.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 136.103  | 137,039       | 123.322   | 122.001                                 | 930                                           | 2750        | 4          | ¥.7           | 54.4        | 1635       |
| CADUS SHUTAL SHOUND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 28 + AM(**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 30.500   | 30.4.06       | •         | 24.245                                  | 47.                                           | £74         | _          | O             | 53          | 7.         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |               |           |                                         |                                               |             |            |               |             |            |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------|--------------------|-----------------------------------------|-------------------|-----------|
| INSTALLATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ì          |                   |                    |                                         |                   |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            | LABORATORY        | ADMIN              | なみえたご                                   |                   | EQUIPMENT |
| SEPOMEDICAL RESEARCH LABORATORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FT.RUCKER,AL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>0</b>   | 52.747            |                    | 21.884                                  | 0.644             | 7.725     |
| IIP DEFENSE BOARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | TL FASO,TX.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 92         | 36.550            | 36.326             | 30, 114                                 | 1.895             | 001.0     |
| AIREORNE BOARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | FT.SRAGG.N.C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 27         | 3.978             | 3.014              | 30.300                                  | 0.971             | 3.651     |
| ALACRAFT CEVELOPMENT TEST ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | FT.RUCKFR,AL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1196       | 00000             | 30.124             | 116.026                                 | 1.782             | 26.051    |
| KPMOF AND ENGINEER ROARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FT.KMDX.KY.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 9069       | 6.200             | 54.455             | 151.568                                 | 1.419             | 2.411     |
| ATMOSPHERIC SCIENCES LABORATORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | WHITE SANDS MR. N. M.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 4.5        | 61.354            | 91.245             | 17.255                                  | 18.000            | 23.080    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FT.RUCKER,AL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -          | 0000              | 30.663             | 12.961                                  | 0.170             | 0.043     |
| TIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | FOWARDS AFRICA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ç.         | <b>6</b> ,200     | 16,000             | 124.800                                 | 3,632             | 7.417     |
| AVIATION RESEARCH C TECHNOLOGY LABORATORIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | MOFFETT FIFLD.CA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 127        | 86.848            | 58.673             | 16.370                                  | 1.431             | 4.211     |
| IVIONICS R E D ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | TI TERREDUTE. N. C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0          | 16.000            | 33.500             | 0000                                    | 000.0             | 7.852     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ABFRDEEN PROV.CR., WD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1020       | 539,702           | 11.200             | Z40*07                                  | 14.595            | 26.598    |
| CHEMICAL SYSTEMS LARGRATORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ABERDEFN PPD.GP., WD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1750       | 435.600           | 235.000            | 780.000                                 | 27.800            | 17.000    |
| COLD REGIONS REE LAPORATORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | HAMOVER, N. H.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 54         | 80.786            | 30.127             | 128.544                                 | 7.804             | 6.050     |
| COLD REGIONS TEST CENTER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | APO SEATTLE WAS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 647155     | 2.715             | 20.457             | 268.672                                 | 12.196            | 5.762     |
| THEAT SURVEILLANCE & TGT ACQUISITION LAB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FT. MONWOUTH . N. J.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 122        | 68.475            | 6.139              | 12.56                                   | 4.266             | 17,115    |
| COMMUNICATIONS - ELECTRONICS BRARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | FT.GORDON:GA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ۲.         | 0.000             | 18.260             | 3.163                                   | 0.123             | 00000     |
| COMMUNICATIONS R E D COMMIND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | FT MONEGUTHING.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0          | £76°49            | 4.201              | 0.000                                   | 00000             | 000.01    |
| CONSTRUCTION ENGINEERING RESEARCH LAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CHAMPAIGN+IL+                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 30         | 76.081            | 34.150             | ر• دور                                  | 3.896             | 4.067     |
| DUGWAY PROVING GROUND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | DUGWAY, UT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 802731     | 90.728            | 191,558            | 1620.246                                | 19.999            | 28.762    |
| ELFCTRONIC PROVING GROUND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FT .HUACHUCHA, AR.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 59573      | 00000             | 50.300             | 189.500                                 | 2.350             | 007.66    |
| ELECTFONIC WARFARF LABORATORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | FT.MONNOUTH N. C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ç          | 142.936           | 13.417             | ₹5. ₹02                                 | 0000              | 86.420    |
| ELECTPONICS R & D TECH SUPPORT ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FT.MONMOUTH, N.J.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 136        | 17.876            | 34.400             | 7.4.5                                   | 33.988            | 6.#21     |
| FLELTRONICS TECHNOLOGY AND REVICES LAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | FILEBOARDUTH, N. G.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0          | 95.789            | 16.475             | 26.474                                  | 000.0             | 10.880    |
| ENGINEER TOPPGRAPHIC LABORATORIFS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | FT BELVOIR VA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4          | 90.722            | 7.000              | 13,300                                  | 9                 | 10.600    |
| SUCTINEFIC WATERWAYS EXPENDENT STATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | VTCKSPIPG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 722        | 1736-714          | 359.810            | 177.430                                 | 20.240            | 34.127    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FT.SILL.OK.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 23         | 22.566            | 32.802             | 17,640                                  | 3,330             | 0.842     |
| TIRE CONTROL & SHALL CAL. WPNS SYSTS LAB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | DOVER N. J.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ٥          | 0000              | 0.000              | 00000                                   | 00000             | 0.000     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | HASHINGTON, D.C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2343       | 405,382           | 70.732             | 272 . 541                               | 555.73            | 30,768    |
| HUMAN ENGINEERING LABORATORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | APERDEEN PRO.GR., MP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12         | 22.000            | 25.800             | 23.000                                  | 4.412             | 3.806     |
| INSANTRY BEARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | FT. PENNING. GA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | J1         | 0.000             | 35.653             | 21.080                                  | 006.0             | 0.770     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | WASHINGTON.D.C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4          | 3.325             | 5.696              | 6.730                                   | 0.653             | 1.180     |
| INSTITUTE OF SURGICAL PESFARCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | FT.SAM HOUSTON, TX.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ~          | 26.424            | 1.000              | 22.404                                  | 2.013             | 1.908     |
| EXTRLIGENCE & SECURITY BOARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | FT HITACHINCHA, AR.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 10         | 0.000             | 5.000              | 23.000                                  | 0.250             | 0.749     |
| WAJALEIN MISSILE PANGE, MARSMALL ISLAYNS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | APO SAN FRANCISCO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1671       | 00000             | 155,047            | 2280.823                                | 592.832           | 146.161   |
| ARGE CALIBER WEAPONS SYSTEMS LAP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DOVER .N.J.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 4000       | 204.685           | 184,072            | 128.700                                 | 965-8             | 009-09    |
| FITERMAN ARMY INSTITUTE OF PESFARCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PRESIDIO-S.F. CA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | σ          | 133.198           | Je. F06            | 3.0F+304                                | 42.552            | 10.478    |
| "ATERIALS AND MECHANICS REVEARCH CENTER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | HATER TOWN, MA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4          | 349,000           | ×6.000             | 157.300                                 | 16.491            | 16-150    |
| ATTRICE SYSTEMS ANALYSIS ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | APPRINA PROV. GROWND . WD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4          | 8.140             | 0 C. C.            | 1.715                                   | 2.070             | 797.0     |
| ALTERIEL TESTING DIRECTOPATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ARERDEEN PROVER CO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 22865      | 728.692           | 152.4              | 260,500                                 | 15.188            | 44.157    |
| FFICAL BIDENGINEFRING FOR LEBOPATOFY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | FT.DETRICK.TO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ur (       | 4.0.4.0.4.        | 27,300             | #90°7                                   | 3,216             | 8 2 9 B   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | TI DETENTOR TO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <u>ت</u> ز | 006-0             | 005.52             | 000 000                                 | 200.0             | 0.140     |
| ATELICAL ROCK INS! UP ENFECTIOUS DISEASES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0 6        | *C**O*            | 14.820             | 669 602                                 | 428°23            | 17.4      |
| ALCOLLY FOCH & C CTV CMU.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ATTOUR ANTHURITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 00011      | 003,443           | 216.702            | 200 27 e                                | 7:0.051           | 146.44    |
| THE TAX OF | TINETICAL X TO THE STATE OF THE | 1001       | 740.00            | 05/-941            | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | C7C+21            | 31        |
| •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5013CR97K.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2412       | 100.700           | 200.00             | 2000                                    | 050-12            | 0000      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | F. SELVUIR OV.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | er (       | 180.039           | 21.12              | 000.07                                  | 000.26            | 000.00    |
| <b>/</b> :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | AND INCIDENCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ٥,         | 011.97            | 2.5.2              | 0.1.0                                   | 0000              | 75.00     |
| TOTAL TROUBLE OF TAVARDAMENTAL BECIDING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | AP-ICK-BP-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4 •        | 174-00            | 500.51             | 140.17                                  | 3.713             | 3.420     |
| ٠,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | VIN HILL+VA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | - :        | 000.04            | 0000               | 0.50                                    | 7011-0            | 2115      |
| これできません アンド・アンド・アンド・アンド・アンド・アンド・アンド・アンド・アンド・アンド・                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ませアスヤン・モー・                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 11         | 140.319           | 470.00             | 0000                                    | 462° 36           | 000.571   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1100       | 207 675           | 0045               | 164.0                                   | 990.01            | 15.107    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A STUDENT STATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2227167    | 1477 874          | 174 077            | 2020-0                                  | 183 676           | 100 673   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 870309     | 0.832             | 112.490            | 1294.613                                | 47.288            | 76.584    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |                   |                    |                                         |                   |           |
| TGTALS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6670947    | 6670947 10083.678 | 3546.246 13201.707 | 13201-707                               | 1534,783          | 1402,717  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 티          |                   |                    |                                         |                   |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |                   |                    |                                         |                   |           |

TABLE 3. WAVY ROTCE ACTIVITIES. PROFRAM AND PERSONNEL DATA, FY 1978

PERSONNEL DATA

FUNDING DATA (MILLIGHS \$)

| INSTALLATION                               |                                                  |         | TOTAL    | TOTAL   | INHOUSE |           | TOTAL       | c F        | 9<br>04<br>4 | PPOF     | PROF       |
|--------------------------------------------|--------------------------------------------------|---------|----------|---------|---------|-----------|-------------|------------|--------------|----------|------------|
|                                            |                                                  | TOTAL   | INHOUSE  | POTCE   | *DTCE   |           | C IV        | #16        |              |          | <b>^1</b>  |
| AFROSPACE MEDICAL PESEARCH LABORATORY      | PENSACOLA,FL.                                    | 5-842   | 5.461    | 4.876   | 4.495   |           | 134         | 11         |              |          | <b>4</b> 3 |
| AIR GEVELOPMENT CENTEP                     | JOHNSVILLF, PA.                                  | 221.7#6 | 106.461  | 138.964 | 47.944  | 200       | 2172        | •          |              |          | 760        |
| AIP ENCINEERING CENTER                     | 1 AKEHUPST.N.J.                                  | 78.948  | 57.179   | 16.457  | 10.544  | _         | 1443        | ၁          |              |          | 244        |
| AIR PPCPULSION CENTER                      | 17日代11八七・八十二八十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十 | 26.186  | 19.641   | 23.045  | 16.809  |           | 935         | 0          | 0            |          | 155        |
| AIP TEST CENTER                            | PATUXENT FIVER-ME.                               | 114.846 | 95.104   | 080.49  | 51.379  |           | 2114        | m          | _            |          | 455        |
| APCTIC RESEARCH LAPORATORY                 | PARROW, AK.                                      | 10.569  | 0.055    | 8-625   | 000.0   |           | 0           | ٥          | 0            | ~        | 0          |
| ATLANTIC FLEET WEAPONS TRAINING FACILITY   | ROOSEVELT ROADS,P.R.                             | 14.007  | 3.402    | 0.286   | 0.156   | 931       | *           | 0          | ٥            | 27       | 34         |
| FIGSCIENCES LAROPATORY                     | CAKLAND, CA.                                     | 3.110   | 0.859    | 2.164   | 0.556   | 15        | 9           | -          | 0            | ø        | 0          |
| ELCCO RESEARCH LASORATORY                  | CHELSTA, MA.                                     | 1.043   | 1.063    | 0.887   | 0.5A7   | 10        | •           | *          | 0            | m        | 7          |
| CIVIL ENGINEERING LABORATORY               | PORT HUENEME,CA.                                 | 29.20R  | 11.790   | 20.853  | 909.6   | . <b></b> | 300         |            | z            | •        | 160        |
| CLOTHING E TEXTILE PESFARCH FACILITY       | NATICK . MA.                                     | 1.879   | 1.519    | 0.75#   | 9.758   | -         | 98          | 0          | -4           | <b>~</b> | 37         |
| CCASTAL SYSTEMS CFUTEP                     | PANAMA CITY, FL.                                 | 41.452  | 22.578   | 28.925  | 14,603  | 113       | 179         |            | 77           |          | 275        |
| DAVID W. TAVLOP SHIP PED CENTER            | PETHESOA *MO.                                    | 145.089 | 115.636  | 198-66  | ***     | 77        | 2570        | 0          | 125          |          | 2021       |
| DENTAL RESPARCH INSTITUTE, KTC             | GREAT LAKES, IL.                                 | 1.141   | 1-1-1    | 0.543   | 0.593   | 2.R       | 16          | m          | m            | 01       | ~          |
| ENVIRONMENTAL PREDICTION PESEARCH FACILITY | MONT FREY, CA.                                   | 3.131   | 1.409    | 2.914   | 1.196   | 14        | 7           | 0          | ٢            | ¥        | 30         |
| EXPLOSIVE OPONANCE DISPOSAL FACILITY       | INDIAN HERD, MC.                                 | P.002   | 5.569    | 4.667   | 2.592   | 50        | 165         | O          | ~            | ۍ        | ř.         |
| HEALTH RESEARCH CENTER                     | SAN PIEGC, CA.                                   | 2.970   | 2.565    | 2.378   | 1.973   | 35        | <b>4</b>    | •          | 2            | 10       | 31         |
| MEDICAL RESEARCH INSTITUTE                 | BETHESDA, NO.                                    | 14.051  | 13.308   | 10.597  | 9.854   | 251       | 241         | 63         | 33           | 9.6      | <b>E</b>   |
| MEDICAL RESEARCH UNIT NO.2                 | TAIPEI, TAIWAN                                   | 2.559   | 2.430    | 1.864   | 1.864   | 31        | <b>L</b> r. | 0          | 7            |          | m          |
| MEDICAL RESEARCH UNIT NO.3                 | CAIRC, EGVPT                                     | 2.305   | 2.256    | 1.807   | 1.758   | 27        | 62          | ĸ          | ia)          |          | 36         |
| NATIONAL PAPACHUTE TEST RANGE              | EL CENTRO, CA.                                   | 14.617  | 14.168   | 7.417   | 7.777   | 543       | 268         | <b>F</b> 1 | 0            | 67       | 52         |
| CCEAN R & D ACTIVITY                       | BAY ST.LOUIS.MS.                                 | 24.057  | 111 ,900 | 22.620  | 11.032  | 10        | 230         | -          | 35           |          | 133        |
| DCFAN SYSTEMS CENTER                       | SAN DIFGO,CA.                                    | 208.015 | 164.998  | 135.895 | 75.274  | 321       | 2493        |            | 165          |          | 1239       |
| OPDMANCE MISSILE TEST FACILITY             | WHITE SANDS, N.M.                                | 4.912   | 3.111    | 2.935   | 1.595   | 96        | Ż.          | ~          | 0            |          | 4          |
| PACIFIC MISSILE TEST CENTER                | POINT MUGU,CA.                                   | 213.993 | 134.819  | 70.1RE  | 55.430  | 18        | 3800        | m          | 0            |          | 1204       |
| PEDSONNEL PESEARCH & DEVFLOPMENT CENTED    | SAN DIFGGOCA.                                    | 16.79   | 5.022    | 14.092  | 098-9   | 54        | 265         | _          | 78           |          | 195        |
| PESEAPCH LABORATORY                        | KASHINGTON, D.C.                                 | 207.252 | 161.382  | 178.272 | 132.402 | 146       | 3357        | 0          | 585          |          | 1554       |
| SUPMAPINE MEDICAL RESEARCH LABOPATORY      | GROTO**CT.                                       | 2.349   | 2.349    | 1.707   | 1.797   | 32        | 69          | ۲          | 11           |          | 32         |
| SUPPLICE WEAPONS CENTER                    | SILVER SPPING, MC.                               | 265.991 | 134,317  | 165.652 | 87.614  | 125       | 4763        | ~          | 234          |          | 1935       |
| UNDERSEA RANGES DEPARTMENT                 | WEWPOPT.PT.                                      | 25.091  | 18.059   | 10.422  | 17.188  | \$        | 34          | 0          |              |          | 92         |
| UNDEPWATER SYSTEMS CENTER                  | WEWPORT .PI.                                     | 258.330 | 125.988  | 97.118  | 48.898  | 100       | 2806        | -          | 8            |          | 1455       |
| WEAPCRS CENTER                             | CHINA LAKE+CA.                                   | 249.833 | 132.774  | 145.745 | 86.486  | 513       | 3969        | 0          | 127          | 34       | 1387       |
| WEAPORS EVALUATION FACILITY                | AL RUQUEPOUF, N. M.                              | 7.521   | 7.282    | 5.406   | 5.406   | 143       | 111         | <b>#</b> 1 | ~            | 25       | ş          |
|                                            |                                                  |         |          |         |         |           |             |            |              |          |            |

TOTALS

TABLE 4. MAVY ROTCE FACILITIES DATA, FY 1978

COST (MILLIONS \$)

|                                                  |                      | a<br>V     | SPACE (THRUSANCS OF SQUARE REET) | NOS OF SO          | UARE REET) | 1420     |           |
|--------------------------------------------------|----------------------|------------|----------------------------------|--------------------|------------|----------|-----------|
|                                                  |                      | ACPES      | LABORATORY                       | ADMIN              | CTHER      | *        | EQUIPMENT |
| AFROSPACE MEDICAL PESFARCH LAPCRATORY PEN        | ENSACCLA, FL.        |            | 167.657                          | 00a.e              | 11,660     |          | 3.583     |
|                                                  | JOHN SVILLF, PA.     | 631        | 825.433                          | 82.8               | 675.359    | 32.958   | 41.758    |
| LAK                                              | LAKEHIPST.N.J.       | 11377      | 467.945                          | 204.247            | 2144.783   | 96.255   | 20.413    |
| TRE                                              | TRENTON.N.J.         | 4.9        | 376.704                          | 17,073             | 211.766    | 50.620   | 11.093    |
| LYA                                              | PATUXENT RIVER, MD.  | 6638       | 14,125                           | 363.400            | 4560.5A9   | 159.868  | 22.489    |
| E A F                                            | EAPPON+AK.           | 4973       | 45.706                           | 15.087             | 341.075    | 35.000   | 0.00      |
| ATLANTIC FLEET WEAPONS TRAININC FACILITY ROC     | ROCSEVELT ROADS.P.P. | 3602       | 00000                            | 14,957             | 154.005    | 10.717   | 42.607    |
| _                                                | DAKLAND, CA.         | r          | 77,625                           | 1.7.4              | 4.666      | 1.000    | 8.400     |
|                                                  | CHELSEA, MA.         | -          | 14.720                           | 7.360              | £ 300      | 0.500    | 1.216     |
|                                                  | PPRT HUEWENE,CA.     | 30         | 117.980                          | 27.061             | 44.181     | 2.000    | 2.393     |
| FACILITY                                         | NATICK+MA.           | -          | 10.000                           | 7.000              | 3.000      | 0.40     | 0.850     |
|                                                  | PANAMA CITY, FL.     | 682        | 345.947                          | 38.150             | 247.530    | 31.358   | 16.559    |
| DAVID W. TAYLOR SHIP RED CENTER                  | RETHESDA.MD.         | 325        | 1420.730                         | 126.979            | 287.109    | 71.007   | 52.625    |
| DENTAL PESEAFCH INSTITUTE,NTC                    | CPEAT LAKES,IL.      | Ų          | 22.025                           | 4.415              | 13,39.5    | 000-0    | 0.647     |
| ENVIRONMENTAL PREDICTION RESEARCH FACILITY - MON | MONTFREY, CA.        | •          | 1.362                            | 4.458              | 10.59      | 000.0    | 0.483     |
|                                                  | INDIAN HEAD, MP.     | 1087       | 34,681                           | 16.936             | 49.085     | 3.952    | 2.339     |
|                                                  | SAN DIEGO.CA.        |            | 11.17                            | 4. FC0             | 0.000      | 1.860    | 0.491     |
| MEDICAL PESFARCH INSTITUTE                       | RETHESPA WO.         | 4          | 145.868                          | 06776              | \$2.3      | 3-887    | 1.479     |
|                                                  | TAIDEI, TAIWAN       | 20         | 32.682                           | 16.075             | 49.364     | 0.101    | 904.0     |
|                                                  | CAIRO, FGYPT         | <b>I</b> O | 41.068                           | 8.942              | 25.729     | 1.074    | 0.711     |
| 7.CF                                             | EL CENTRO, CA.       | 484608     | 6.400                            | 56.670             | 1142.407   | 33.061   | 20.519    |
| <b>₹ 3</b> 18                                    | P.FY ST.LNUIS.MS.    | ď          | 27.454                           | 16.633             | 17.749     | 000.     | 3.200     |
|                                                  | SAN DIFGO,CA.        | 3837       | 1300.727                         | 213.608            | 183,555    | 36.549   | 122.829   |
|                                                  | HEITE SANDONNE       | <b>4</b>   | 106.566                          | 30,539             | 78.6%      | 5.404    | 9.96.6    |
|                                                  | PCINT MUGU,CA.       | 27084      | 912.309                          | 395.689            | 3514.572   | 142.415  | 140.762   |
| DEVELOPMENT CENTER SAN                           | SAN DIEGO,CA.        | -          | 56.500                           | 7.040              | 000.0      | 786.0    | 2.176     |
| _                                                | HASHINGTPN.D.C.      | 797        | 2321.146                         | 192.496            | 761.167    | 91.892   | 116.88    |
| SUBMAPINE MEDITAL DESEARCH LAEGRATORY GRO        | RRDIC**CT.           |            | 40.514                           | 14.099             | 000.0      | 1.10     | 1.769     |
|                                                  | SILVER SPRING, KD.   | 5381       | 1672.370                         | 153.791            | 971.178    | 93.726   | 86.152    |
| AL X                                             | WFWPCRT.PI.          | 1042       | 70.603                           | 17.339             | 306.012    | 23.899   | 1.282     |
| AU Z                                             | NEMPERTOR.           | 350        | 299.606                          | 105.446            | 560.578    | 46.111   | 45.073    |
|                                                  | CHINA LAKE, CA.      | 1094728    | 1385.564                         | 429.128            | 4545.132   | 226.424  | 04.40     |
| WEAPUPS EVALUATION FACILITY                      | ALRUQUEPOUE,N.M.     | ^          | 004.0                            | 53.592             | 926.46     | 009.6    | 0.926     |
| Trtals                                           |                      | 1643095    | 1643095 13276,857                | 2697.789 20800.823 | 20800.823  | 1225.520 | 897.093   |

YABLE 5. AIR FORCE ROTGE ACTIVITIES, PROGRAM AND PERSONNEL DATA, FY 1978

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A Constant and the second

|                                            |                    | FUNDI   | IG DAYA | FUNDING DATA IMILLIONS \$) | 3       |            | B.F.  | NNOS       | PERSONNEL DATA | 2    |             |
|--------------------------------------------|--------------------|---------|---------|----------------------------|---------|------------|-------|------------|----------------|------|-------------|
| INSTALLATION                               |                    | TOTAL   | TETAL   | POTCE                      | INHOUSE | TOTAL      | TOTAL | Pr.D       | 0 ¥            | PROF | PROF<br>CIV |
| AERO PROPULSION LABORATORY                 | WPARA, CH.         | 77.222  | 14.053  | 76-102                     | 12.933  | 21         | 382   | •          | ×,             | 43   | 208         |
| ARMAMENT DEVELOPMENT AND TEST CENTER       | EGLIN AFB, FL.     | 722.386 | 158.381 | 259.915                    | 93.642  | 4367       | 1225  | 21         | 5              | 3    | 438         |
| ARNOLD ENGINEERING DEVELOPMENT CENTER      | TULLAHOMA, TN.     | 109,302 | 104.629 | 104.069                    | 102.741 | <b>6</b> 0 | 121   | 50         | 4              | 20   | \$          |
| AVIONICS LABORATORY                        | WPAFR, OH.         | 135,604 | 26.759  | 132,364                    | 23.519  | 171        | 7.82  | 10         | 7              | 100  | #9#         |
| ENGINEERING SERV CHTR DETI (CEEDO)         | TYNDALL AFR,FL.    | 6.865   | 2.080   | 5.268                      | 0.488   | 99         | 12    | _          | ~              | £3   | 4           |
| FLIGHT CYNAMICS LAFORATORY                 | WPAFR, CH.         | 400.40  | 31.202  | 83.290                     | 27.764  | 200        | 750   | Þ.         | 92             | ž    | 643         |
| FLIGHT TEST CENTER                         | FDWAPDS AFB, CA.   | 146.212 | 105.604 | 85.675                     | 61.847  | 2993       | 1626  | 0          | ~              | 126  | 213         |
| FRANK J SEILER RESEARCH LAEGRATORY         | USAF ACADEMY, CO.  | 1.345   | 1.279   | 0.775                      | 0.709   | 23         | 0     | 15         |                | 20   | ₩.          |
| GEOPHYSICS LABORATORY                      | HANSCOM AFB, MA.   | 55.510  | 25.317  | 46.400                     | 21.334  | 120        | 505   | ^          | 5              | 4    | 308         |
| HUMAN RESOURCES LAPORATORY                 | PROOKS AFB, TX.    | 25,445  | 10.01   | 22,230                     | 7.707   | 126        | 241   | ~          | 3              | 91   | 158         |
| MATERIALS LABORATORY                       | WPAFE, OH.         | 92.865  | 16.675  | 50.730                     | 1955    | 57         | 362   | •          | 2              | 49   | 288         |
| ROCKET PPOPULSTON LABORATORY               | EDWARDS AFB,CA,    | 38.764  | 12,356  | 36.222                     | 16.317  | 176        | 260   | 2          | 13             | F    | 6           |
| ROME AIR DEVELOPMENT CENTER                | GRIFFISS AFB,N.Y.  | 220.780 | 29.573  | 125,977                    | 22,359  | 232        | 1101  | <b>4</b> 7 | 23             | 86   | 537         |
| SCHOOL OF AFROSPACE MEDICINE               | BRINKS AFB,TX.     | 18.675  | 16.103  | 13,160                     | 10.285  | 388        | 280   | 60         | 33             | 108  | 101         |
| SPACE & MISSILE TEST CENTER (DET.)         | PATRICK AFR. FL.   | 156.620 | 43.317  | 0000                       | 0.000   | æ<br>6     | 330   | Ó          | ~              | 51   | 9.5         |
| SPACE AND MISSILF TEST CENTER              | VANDENPEPS AFB,CA. | 72.690  | 17.712  | 52,267                     | 10,255  | 266        | 351   | 4          | ى              | 503  | 150         |
| WEAPONS LABORAT "Y                         | KIRTLAND AFB,N.M.  | 149.190 | 58 .601 | 136.953                    | 26.619  | 645        | 7 P C | 15         | 36             | 380  | 240         |
| 4950 TEST WING                             | WPAFE+CH.          | 41.384  | 41.087  | 39,367                     | 39.070  | R63        | 1068  |            | O              | 183  | 46          |
| 6570 AFROSPACE MEDICAL RESEARCH LAPORATORY | WPAFB OH.          | 14,534  | 6.193   | 14.534                     | 6,163   | 136        | 158   | 5          | 54             | 30   | 0 ó         |
| 6585TH TEST GROUP                          | HOLLOMAN AFR. N.M. | 19.451  | 11.715  | 12.039                     | 7.553   | 325        | 200   | er)        | 6              | 75   | 8.5         |

2264.158 722.3301297.347 500,080 1.387 10343 232 498 2335 4139

TOTALS

THE PARTY OF THE P

TABLE 6. AIR FORCE ROTCE FACILITIES DATA, FY 1978

いかい ちょうかい かいれい はない こうかい はない かんかい アン・チェンス これが 人物を変われる 自動な動物を変える 地名のほうほうしゅう しゅうげん

|                                            |                    |          | SPACE                            | SPACE AND PROPERTY | <b>1</b>   | COST (MILLIONS & | L10NS \$) |
|--------------------------------------------|--------------------|----------|----------------------------------|--------------------|------------|------------------|-----------|
|                                            |                    | a's      | SPACE (THRUSANDS OF SOUARE FEFT) | INDS OF SO         | UARE FEFT) |                  |           |
| INSTALLATION                               |                    |          |                                  |                    |            | REAL             |           |
|                                            |                    | ACPES    | ACPES LABORATORY                 | ADMIN              | OTHER      | PROPERTY         | FOUTPHENT |
| AFPC PRCPULSION LAPCRATORY                 | WPAFE OF.          | 9        | 229.490                          | 41.784             | 105.665    | 20.850           | 18.109    |
| ARMAMENT DEVELOPMENT AND TEST CENTER       | EGLIN AFB+FL,      | 464248   | 347.000                          | 106.658            | 10713.693  | 286.308          | 221.438   |
| ARNOLD FNGINEEPING DEVELOPMENT CENTER      | TULL APPRAA, TN.   | 390A1    | 1092,409                         | 182.573            | 541-114    | 340.266          | 60.03     |
| AVIONICS LAEDRATCRY                        | WPAFR, OH.         | 220      | 248.800                          | 8.775              | 411.403    | 23.618           | 66.003    |
| FNGINEEFING SERV (NTP PET) (CEFDO)         | TYNDALL AFF, FL.   | E        | 4.961                            | 2.200              | 9.751      | 0.938            | 1.076     |
| FLIGHT DYNAMICS LAPORATORY                 | WPAFF, CH.         | 42       | 463,927                          | 122,003            | 90.867     | 26.184           | 50.516    |
| FLIGHT TEST CENTED                         | EDWARDS AFB+ CA.   | 227071   | 104.575                          | 265.404            | 6730.973   | 272.968          | 120.062   |
| FRANK J SEILER RESEARCH LARGRATORY         | USAF ACADEMY, Cr.  | <b>,</b> | 19.000                           | 3.100              | 000.0      | 1.680            | 1.634     |
| CECPHYSICS LAPORATORY                      | HANSCOM AFRAME.    | 368      | 391.903                          | 15.006             | 25.883     | 4.717            | 21,453    |
| HUMAN RESCURCES LAPOPATORY                 | PROPES AFR.TX.     | 13       | 69.595                           | 48.264             | 61.429     | 5.447            | 31.647    |
| MATERIALS LABORATORY                       | WPAFP, CH.         | ##<br>12 | 222.E09                          | 25.169             | 111.156    | 19.675           | 15,473    |
| ROCKET PROPULSION LABORATORY               | EDWAPDS AFB, CA.   | 68345    | 719.046                          | 86.848             | 4. 780     | 125.000          | 23,482    |
| ROHF AIR DEVELOPMENT CENTER                | CRIFFICS AFP,N.Y.  | 1560     | 847.195                          | 77.272             | 127.532    | 30.470           | 52.046    |
| SCHOOL OF AFROSPACE MEDICINE               | BROOKS AFR.TX.     | 7.6      | 360.655                          | 77.080             | 969.89     | 16.936           | 20.539    |
| SPACE & MISSILE TEST CENTER (DET1)         | PATPICK AFB. FL.   | 16025    | 65,937                           | 261.593            | 2573.930   | 290.742          | 328-672   |
| SPACE AND MISSILE TEST CFNTER              | VANDFNEFRG AFB,CA. | 55586    | 91.407                           | 334,384            | 431.954    | 94.520           | 70.670    |
| WEAPONS LABORATOPY                         | KIPTLAND AFB.N.M.  | 702      | 556,000                          | 142,000            | 134.000    | 08.233           | 69.854    |
| 4950 TEST WING                             | WPAFR + CH.        | 722      | 0000                             | 68.320             | 973.152    | 11.966           | 277.290   |
| 6570 AFROSPACE MEDICAL RESEARCH LABORATORY | WPAFF+CH.          | 96       | 71.886                           | 43.129             | 51.100     | 19.213           | 27.400    |
| 658FTH TEST GREEUP                         | HOLLE'AN AFR. N.F. | 2099     | 336,000                          | 7.000              | 148.000    | 10.220           | 36.926    |
| TOTALS                                     |                    | 880312   | 5944,616                         | 2672,795 23315,078 | 23315.078  | 1734.951         | 1516.220  |

TABLE 7. REPABTUENT OF DEFENSE POTCE ACTIVITIES, PROCRAM AND PERSONNEL DATA, FY 1979

| INSTALLATION                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FUMEING DATA (MILLIONS 8)    | (#ILLION | <b>3 3</b>                     |                                                                                    | DER. | PERSONNEL | DATA .                                                       |                                         |          |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------|--------------------------------|------------------------------------------------------------------------------------|------|-----------|--------------------------------------------------------------|-----------------------------------------|----------|
| PASICEICLOGY PSCH.INSTITUTE | e Caracana | 1074L 1440USE<br>8-816 8-816 |          | TOTAL TWHOUSE POTCE TOTZ 7.072 | E TOTAL TOTAL PHD PHD PROF PROF<br>HIL CIV HIL CIV HIL CTV<br>2 69 1/9 32 20 48 43 | CIV  | 1 PEC 0   | 5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75 | 7 7 7 6 7 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 | (A. >> = |
| TCTALS                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8.916 8.81                   |          | 7.672                          | 2                                                                                  | 124  | 32        | , 10                                                         | · ·                                     | ,        |

# SUMMARY

# DEPARTMENT OF DEFENSE IN-HOUSE RED LABORATORIES

# PROGRAM DATA FOR FY 1978

|                                 | (4001111000) |
|---------------------------------|--------------|
| TOTAL AMMUAL LABORATORY PROGRAM | 4187.494     |
| TOTAL INHOUSE PROGRAM           | 7167.90%     |
| TOTAL ROTEF PROGRAM             | 7 64.400     |
| YOYAL INHOUSE ROTEF             | 1414.442     |
| TOTAL ANNUAL OPERATING COST     | 761.917      |

# PERSONNEL DATA (END OF EY 1978)

| PERSONNEL | AUTHORIZEO<br>STRENGTH | TOTAL<br>PHD | TOTAL<br>PROFESSIONALS |
|-----------|------------------------|--------------|------------------------|
| MILITARY  | 11905                  | 664          | 1511                   |
| CIVILIAN  | 40186                  | 3246         | 27903                  |
| LATOT     | 60091                  | 1910         | 26416                  |

| PHYSICAL FACILITIES (END OF FY 1978)  |                                    |
|---------------------------------------|------------------------------------|
| ACRES                                 | 1682270                            |
| SPACE (THOUSANDS OF SO 11)            |                                    |
| LABORATORY<br>ADMINISTRATIVE<br>OTHER | 23790.675<br>5411.096<br>26482.326 |
| TOTAL                                 | 55AR4 #047                         |
| COST (MILLIONS)                       |                                    |
| REAL PROPERTY EQUIPMENT               | 2042-490<br>1964-910               |
| TOTAL                                 | 4008.500                           |

TABLE 14. ARMY PLD LABORATOPIES, PROGRAM AND PEPSONNEL DATA, FY 1978

|                                              |                        | FUNCTA                           | FUNCTING DATA (MILLIONS | FILLIONS | <u>.</u> |          | 4                        | 8        | PERSONNEL DATA | 2          |         |
|----------------------------------------------|------------------------|----------------------------------|-------------------------|----------|----------|----------|--------------------------|----------|----------------|------------|---------|
| INSTALLATION                                 |                        | TOTAL                            | TOTAL                   | TOTAL    | INMOUSE  | TOTAL    | TOTAL                    | 2 F      | £ 5            | PROF       | ¥004    |
| ARDERDIES FRESENCE LABORATORY                | FT.PUCKEP.AL.          | 4.369                            |                         | 3.268    | 3.004    | 69       | 7.                       | ^        | •              | 76         | 28      |
| ATMOSPHERIC SCIENCES LABORATORY              | WHITE SANDS MR.N.M.    | 17,162                           | .32                     | 16.805   | 5.067    | 412      | 175                      | Ö        | <b>6</b>       | 13         | 96      |
| NATATION PESEARCH C TECHNOLOGY LABORATORIES  | MOFFETT FIELD, CA.     | 35.697                           | 100.71                  | 34.105   | 16.351   | 25       | 56.9                     | •••      | 50             | 13         | 233     |
|                                              | FT. MONNOUTH . M. J.   | 17.347                           | 404.0                   | 10.756   | 5.771    | 12       | 751                      | 0        | ₩              | 7          | 139     |
| BALLISTIC PESEARCH LABORATORY                | ABERCEEN PROV.GR., WG. | 601. 54                          | 30.635                  | 45,382   | 28.230   | 26       | 524                      | N        | 102            | 15         | 372     |
| VACHE SYSTEMS LABORATORY                     | A BERDEFN FRO.GFMD.    | 73.619                           | 45.235                  | 46.272   | 35.758   | 125      | £70                      | 30       | 25             | 76         | 510     |
| COLD PEGIONS PRE LABOPATORY                  | TANDVER N. Y.          | 7.659                            | 5.763                   | 5.022    | 3.545    | 1.       | 263                      | -        | 31             | <b>W</b> t | 126     |
| COMPAT SURVEILLANCE & TGT ACCUISITION LAB    | FT. FONBOUTH, N. J.    | 64.817                           | 7.A82                   | 15.077   | 4.058    | 10       | 172                      | Ö        | ~              | •          | 130     |
| COMMUNICATIONS P. C. D. COMMAND              | FT MONEDUTH, N.J.      | 41.079                           | 7.119                   | 35.205   | 767.9    | 01       | 353                      | 0        | 0              | m          | 234     |
| CONSTRUCTION ENGINEEPING PERFAMON LAB        | CHAMPAIGN, IL.         | 9,165                            | 7.553                   | 0.040    | 505.5    | •        | 704                      | ٥        | ጸ              | m          | 128     |
| ELECTPONIC WAPFAPE LARCPATOPY                | FT. KONNESSTY. K. J.   | 96.662                           | 72.427                  | 34.973   | 16.710   | 5        | 412                      | 7        | €0             | •          | 224     |
| ELECTPONICS TECHNICIOSY AND DEVICES LAB      | FT. #CHECUTA . L.      | 29.731                           | 13,250                  | 20.645   | 13.164   | 0        | 280                      | O        | 32             | ¢          | 171     |
| ENGINEER TOPOGRAFUL LABORATORIES             | FT.BELVOIR.VA.         | 26.405                           | 10.363                  | 24.344   | \$00°    | 16       | 569                      | _        | 2              | •          | 178     |
| WOLLATS TARREST EXPENDED TO GREEN TO STATION | VICK SELPC+HS+         | 55.783                           | 44.484                  | 14.504   | 1,2.797  | 37       | 1375                     | 7        | 4              | 31         | 1,0     |
| FIRE CONTROL E SMALL CAL. WONS SYSTY LAB     | 00VEP, N. J.           | 45.719                           | 28.983                  | 21.952   | 11.264   | 15       | 608                      | c        | 20             | 13         | 347     |
| HAFFY STAMOND LAPORATOFIES                   | WASHINGTON, D.C.       | 126.770                          | 41.250                  | 60.028   | 30.368   | •        | 1104                     | ~        | <b>8</b>       | ₩          | 603     |
| PUREN ENGINEEPING LABORATORY                 | ABERDEPA PRO.GR.+MT.   | 955.8                            | 7.033                   | 7.772    | 6-2-9    | 33       | 142                      | -        | 16             | 13         | 106     |
| INSTITUTE OF DEWTAL PROFIACH                 | WASHINGTON O.C.        | 3,325                            | 2.363                   | 5.019    | 1.057    | 63       | 56                       | W)       | ~              | 47         | 9       |
| INSTITUTE OF SIRGICAL PEREAPCH               | FT.SAM MOUSTON,TY.     | 4.116                            | 4.116                   | 2.006    | 2.504    | 134      | 0                        | 16       | •              | 2          | 01      |
| LAFGE CALIBER WEAPPWS SYSTEMS LAB            | SCVEP, N.J.            | 178,038                          | 92.289                  | 93.350   | 41.810   | 28       | 1523                     | 0        | 21             | 13         | 416     |
| LETTERMAN APRY INSTITUTE OF BECEAPOR         | PPESICIC.S.F.,CA.      | 9.665                            | 9.665                   | 6.368    | 6.36E    | 153      | 8                        | 28       | 21             | 137        | ¥       |
| MATERIALS AND MECHANICS PESEAPCH CENTER      | WATEP TOWN + MA.       | 34.327                           | 21.993                  | 22,368   | 14.084   | 11       | 409                      | _        | 4              | 0          | 101     |
| METICAL PIDENGINEEPING PCS LARCPATOPY        | FT.CETPICK, MD.        | 4.243                            | 4.243                   | 3.287    | 3.287    | 2.6      | 103                      | 7        | 15             | 71         | ų.<br>M |
| MEDICAL P C D COMPAND                        | FT.DFTRICK.MD.         | 26.052                           | 26.052                  | 74.397   | 162.42   | e.<br>Ev | 66                       | 24       | -              | 17         | K)      |
| SESTESTIC STOLLDERNI BY ISMI HOSE TYDIGER    | ct.cerrick.wD.         | 14,412                           | 11.612                  | 10.771   | 1.171    | Ř        | 197                      | (1)<br>¥ | 24             | 30.        | 67      |
| MISSILE PSCH . E DEV. CMD.                   | REDSTONE APSEMAL, AL.  | 97.540                           | 67.495                  | 57.745   | 38.85    | 56       | 486                      | O        | <b>4</b> 0     | 51         | 679     |
| CHAMMOD C 3 R GIRDS ALITHOR                  | FT.BFLVCIP.VA.         | 150.602                          | 02 <b>9.</b> 59         | 55.628   | 27,348   | 7        | 1204                     | <b>,</b> | 20             | 25         | 318     |
| NATION RED COMMAND                           | WATICK, MA.            | 43.70g                           | 38.884                  | 23.722   | 15.840   | 104      | 1098                     | W)       | 16             | 27         | 727     |
| WIGHT VISITM & ELECTRO PRIICS LABORATORY     | FT.EELVCIP,VA.         | 91.498                           | 29.984                  | 33,765   | 14.748   | 27       | 521                      | 0        | 36             | æ          | 244     |
| PESEAFCH INST FOR BEHAVIOPAL & SOCIAL SCI    | RESTRUCTOR D.C.        | 24.237                           | 11.533                  | 23.502   | 10.798   | 36       | 227                      | κ,       | 143            | 20         | 27.7    |
| PSCH INSTITUTE OF ENVIRONMENTAL MEDICINE     | NATICE . MA.           | 5,205                            | 5.205                   | 3.406    | 3.906    | 4        | 41                       | u۱       | <b>=</b>       | 4          | e<br>S  |
| ACCETACIOTE BOTS OF STANDIS                  | VINT HILL.VA.          | 69.670                           | 4.089                   | 36.553   | 3.467    | 6.9      | 163                      | U        | <b>L</b> N     | 14         | 57      |
| TANK-ALTC P C D COMMAND                      | HARDEN, WI.            | 137,723                          | 16.639                  | 19.877   | 7.781    | 14       | 271                      | -        | ~              | 13         | 157     |
| WALTER DEFC ASWY INSTITUTE OF PESEAPCH       | HASY INSTINCTOR, D.C.  | 44.592                           | 30.124                  | 36.06    | 21.600   | 799      | 577                      | 123      | 25             | 438        | 211     |
| 107A1 C                                      |                        | 1634.637 718.130 867.833 462.798 | 718.130                 | PK7.833  | 462.798  | 2566     | 2565 15420 315 1130 1245 | 315      | 1130           | 1245       | 8043    |

TABLE 24. APMY PES FACILITIES SATA, EV 1979

|                                             |                                                              | ţ             |              | SPACE AND PROPERTY |             | COST EMILLIONS \$3 | TOWS \$3  |
|---------------------------------------------|--------------------------------------------------------------|---------------|--------------|--------------------|-------------|--------------------|-----------|
|                                             |                                                              | <i>i.</i>     | CIALL DIVINI | 100 LE 000         | ישאל יוכנין | 95.41              |           |
|                                             |                                                              | ACBEC         | LABORATORY   | ADMIN              | OT ME       | ¥                  | FOUTPRENT |
| AFROMFDICAL RESEARCH LABORATGRY             | FT.FUCKED.AL.                                                | <b>S</b>      | 52-747       | 1.797              | 21.984      | 0.844              | 7.725     |
| ATMOSPHEPIC SCIENCES LABORITORY             | WHITE SANDS MR. N. M.                                        | 2.5           | 61.354       | £1.245             | 17.255      | 18.000             | 23.060    |
| AVIATION RESEARCH & TECHNOLOGY LABORATORIES | MOCEETT FIELP.CA.                                            | 127           | 88.848       | 58.673             | 16.370      | 167.1              | 4.211     |
| AVICAICS P E D ACTIVITY                     | ・できならればひをおしょ。にし                                              | Ç             | 16.990       | 33.500             | 0.000       | 000.0              | 7.852     |
| PALLISTIC RESEARCH LARCHATORY               | ABERDEFN PPOV.CP.+MD.                                        | 1920          | 539.752      | 11.28              | 230.67      | 14.595             | 26.598    |
| CHEMICAL SYSTEMS LAPCRATORY                 | ABERDEEN PRO.59 . MIL.                                       | 1750          | 435.000      | 235.000            | 720.065     | 27.830             | 17,000    |
| COLC REGIONS REE LABORATORY                 | HANDVED W. H.                                                | 72            | PC.786       | 30.527             | 128.544     | 7. P. 94.          | 6.959     |
| COMEAT SUPVEILLANCE E TGT ACQUISITION LAB   | *T' WATERCHANDS LU                                           | 227           | £4.00        | 6.130              | 12.560      | 4.265              | 17,115    |
| COMPUNICATIONS R E D COMMAND                | FT MONINGUAMON.                                              | 0             | 69.943       | 4.291              | 900.0       | 303°5              | 10.600    |
| CONSTRUCTION ENGINEEPING PESEAPON LAB       | CHAMPAICH.IL.                                                | 30            | 76.581       | 34.159             | 2.500       | 3.896              | 4.067     |
| ELECTPONIC WARFARE LABORATORY               | FT. W. W. COLOR P. M. P. | C)            | 142.936      | 13.617             | 205.        | 0000               | 86.420    |
| ELECTFONICS TECHNOLOGY AND DEVICES LAP      | *C.M.Williamina.Tra                                          | U             | 05.780       | 16.575             | 26.474      | 00000              | 10.880    |
| FNGINFEP TOPOGPAPHIC LABOPATOPIFS           | FT.BELVPIF.VA.                                               | 6)<br>6)      | 03.722       | 7.090              | 13,300      | 6.000              | 10,600    |
| ENCINEEP WATERWAYS EXPERIMENT STATICH       | VICK SELPCIPE WITH                                           | 722           | 1736.714     | 359.P19            | 172.439     | 20.240             | 34.127    |
| FIRE CONTROL & SMALL CAL. WPNS SYSTS LAB    | DCVEP . N.J.                                                 | U             | 0.000        | 606-3              | 0000        | 9 <b>00°</b> 5     | 0000      |
| HAMPY DIAMEND LAPOPATCPIES                  | WATHINGTON+D.C.                                              | 2343          | 405,382      | 79.732             | 272.541     | 765.77             | 39.768    |
| HUMAN ENGINEEPING LABORATORY                | A SEPDEFIN POP.GP. PMT.                                      | 21            | 22.999       | 25.490             | 20°00       | 4.412              | 3.406     |
| INSTITUTE OF DENTAL RESEARCH                | MACHINGTON O O.                                              | 4             | 9.325        | 5.696              | 6.730       | 0,653              | 1.130     |
| INSTITUTE OF SURGICAL PESSAFCH              | FT.SAM MOUSTON, TX.                                          | -             | 26.424       | 1.650              | 22.406      | 2.013              | 1.908     |
| LAPGE CALIBER WEADONS SYSTEMS LAB           | DOVER +4.J.                                                  | <b>\$</b> 000 | 204.585      | 124.572            | 128.706     | 4.586              | 60.600    |
| LETTERMAN ARMY INSTITUTE OF PESFARCH        | PRESIDIO.S.F.,CA.                                            | <b>Q</b> ·    | 133,199      | 36.506             | 305-209     | 42.582             | 10.472    |
| MATERIALS AND MECHANICS RESEARCH CENTER     | WATERTOWN, MA.                                               | \$            | 379.000      | 96.196             | 157.500     | 16.591             | 16.150    |
| MEDICAL BICENCINEERING REC LARCHATCHY       | ET.PETPICK, MD.                                              | 'n            | 45.888       | 27,300             | 34.068      | 3.216              | 3.293     |
| MEDICAL R C D COMMAND                       | FT.DETPICK.WD.                                               | S             | 0.000        | 23,350             | 900.0       | 00000              | C.146     |
| MEDICAL RSCH INST OF IMPECTIOUS DISEASES    | FT.DETPICK, MD.                                              | ť             | 464.09       | 19,820             | 509-698     | 17,624             | 4.775     |
| MISSILE PSCH . E DFY. CMC.                  | PFDSTCHE ARSENAL.AL.                                         | 11000         | 663,903      | 318,702            | 428.008     | 136.072            | 195.88    |
| MORILITY ECUIP R E D CPMMAND                | ET.BELVOIP, VA.                                              | 1084          | 750.849      | 146.733            | 200.002     | 58,523             | 31.776    |
| HATICK BEC COMMAND                          | HATICK, MA.                                                  | 2913          | 552.557      | 65.900             | 417.644     | 27.050             | 18.366    |
| MICHT VISION & LECTRO DPTICS LABORATORY     | FT.RELVCIP.VA.                                               | 2)            | 180.639      | 27.186             | 8.80        | 32.000             | 50.500    |
| RESEARCH INST FOR REMANICHAL C SCCIAL SCI   | MASHINGTON.D.C.                                              | 0             | 46.110       | 2.559              | 6-190       | 38.0               | 1.793     |
| PSCH INSTITUTE OF ENVIRONMENTAL MEDICINE    | NATICK . MA.                                                 | 4             | 66.421       | 18.563             | 25.647      | 3.713              | 2.42t     |
| SICHALS MAPRARE LABORATORY                  | VINT HILL, VA.                                               | <b>~</b>      | 46.000       | 000.0              | 38,000      | 0.300              | 3.772     |
| TONK-AUTO P E C CEMMAND                     | WARPEN, MI.                                                  | 11            | 140,319      | 716.66             | 0.000       | 36.34              | 125,000   |
| WALTER REFD ARMY INSTITUTE OF RESEARCH      | WASHINGTON, D.C.                                             | 203           | 322.974      | 58.360             | 0.000       | 10.040             | 15,167    |
| TUTALS                                      |                                                              | 26587         | 2115.7115    | 2130.042           | 3592.492    | 548.638            | 147.171   |

TABLE 3A. MAYY RCD LASHPATORIES, PROGRAM AND PERSONNEL DATA, FY 1978

|                                            |                    | FUNDIA  | FUNDING DATA (MILLIGHS & | MILLIONS | ŝ       |               | PEP        | SG         | PEPSONNEL DAT | 4        |            |
|--------------------------------------------|--------------------|---------|--------------------------|----------|---------|---------------|------------|------------|---------------|----------|------------|
| THSTALLATION                               |                    |         | TOTAL                    | TOTAL    | INHOUSE | TOTAL         |            | ÚH.        |               | a<br>G   | #0.4       |
|                                            |                    | TOTAL   | INHORISE                 | POTEE    | RDTEE   | ¥Ţ,           | CIV        | HIL        | CIV           | MIL      | زام        |
| AEPOSPACE MEDICAL RESEAPCH LABOPATORY      | PFNSACGLA,FL.      |         | 5.461                    | 4.876    | 4.495   | <b>9</b>      |            | 17         |               | 22       | £3         |
| AIP DEVELOPMENT CFNTER                     | JOHNSVILLE, PA.    |         | 106.461                  | 138.964  | £7.944  | 0<br><b>%</b> | 2172       | ø          |               | ž        | 1094       |
| AIS ENGINEEPING CENTEP                     | LAKEHUPST.N.J.     | 72.548  |                          | 16.857   | 10.544  | 782           | 1,493      | c          | m             | 34       | <b>7</b>   |
| ARCTIC PESFARCH LAPPATORY                  | BAPPINGAR.         | 10.569  | 0.055                    | 8.828    | 000.0   | m             | 0          | 0          | Ç             | ~        | 0          |
| RIDSCIENCES LABORATORY                     | DAKLAND, CA.       | 3.110   | 0.869                    | 2.164    | 6.556   | €.            | •          |            | ٥             | ø        | 0          |
| BLCCO PESEAPCH LAPORATURY                  | CHELSEA, MA.       | 1.063   | 1.063                    | 0.587    | 0.847   | 10            | •          | <b>E</b>   | 0             | W)       | ~          |
| CIVIL ENGINFEPING LABUPATURY               | PERT HURNEME,CA.   | 29.20#  | 11.790                   | 20.653   | 909-6   | 16            | 300        | <b>p=4</b> | 7.7           | •        | 160        |
| CLUTHING & TEXTILE RESEARCH FACILITY       | WATICK . MA.       | 1.679   | 1.519                    | 0.758    | 9.758   | -             | ŝ          | 0          |               | -        | 37         |
| CHASTAL SYSTEMS CENTER                     | PANAMA CITY FL.    | 41.452  | 22.578                   | 28.925   | 14.603  | 113           | 179        | ~          | 21            | ₩        | 275        |
| DAVIC W. TAYLOR SHIP RED CENTEP            | EFTHFSDA.MD.       | 145.089 | 115.636                  | 44.867   | 72.958  | 2             | 2570       | J          | 125           | 22       | 1202       |
| DENTAL RESFAPCH INSTITUTE, NIC             | GREAT LAKES,TL.    | 1.141   | 1.141                    | 0.593    | 565.0   | 2#            | 16         | ۳          | •             | 10       | 7          |
| ENVIPENMENTAL PREDICTION RESEAPOR FACILITY | MENT FREY CA.      | 151.5   | 1.409                    | 2.91A    | 1.194   | <b>1</b>      | 7          | o          | ^             | •        | 30         |
| WEALTH PESFAGCH CENTER                     | SAN CIEGO,CF.      | 2.970   | 2.565                    | 2.378    | 1.973   | 35            | <b>9</b>   | æ          | ů             | 2        | 31         |
| MEDICAL RESEARCH INSTITUTE                 | RETHESDA, HO.      | 14.051  | 13.308                   | 10-597   | 9.834   | 251           | 741        | 63         | 36            | <b>4</b> | (f)<br>(E) |
| MECICAL PESEAPCH INIT NO.2                 | TAIPEL, TATKAN     | 2.550   | 2.430                    | 1.864    | 1.864   | 31            | <b>u</b> n | σ          | ~             | 12       | m          |
| MELICAL PESEARCH UNIT NO.3                 | CAIPO.EGVPT        | 2,305   | 2.256                    | 1.807    | 1.758   | 27            | 61         | ₩.         | •             | 12       | 36         |
| CCEAN R C C ACTIVITY                       | BAY STALMUISAMS.   | 24.057  | 11.900                   | 22.620   | 11.032  | 2             | 230        |            | 35            | 10       | 133        |
| CCEAN SYSTEMS CENTED                       | SAN DIEGO,CA.      | 208.015 | 104.998                  | 135° 49E | 75.274  | 321           | 5663       |            | 165           | 132      | 1239       |
| PEPSCHAFL PESEARCH & DEVELOPMENT CENTER    | SAN DIEGN,CA.      | 19.79   | 9.022                    | 14.092   | 6.860   | 54            | 592        | ~          | 2             | •        | 195        |
| PRETAPCH LABORATOFY                        | WASHINGTON, D.C.   | 207.252 | 161.382                  | 178.272  | 132.402 | 971           | 1356       | 0          | 585           | 35       | 1554       |
| SUFMAPINE MEDICAL PESEAPCH LABEPATORY      | GROTON.CT.         | 2.349   | 2.349                    | 1.797    | 1.797   | 32            | 69         | ^          | 11            | 12       | 32         |
| SURFACE WEAPONS CENTER                     | SILVEP SPPING, MD. |         | 134.317                  | 165.652  | 67.614  | 125           | 4763       | ~          | 239           | 77       | 1936       |
| UNCEPTER PANCES DEPARTMENT                 | NEWPURT, EI.       | 25.091  | 18.059                   | 18.422   | 17-188  | ž             | 36         | 0          | -             | 11       | <b>5</b> 6 |
| UNCEPHATEP SYSTEMS CENTER                  | WEMPIPT PI.        | 258.330 | 125.088                  | 97.118   | 48.898  | 100           | 2806       | -          | 100           | 3,4      | 1458       |
| WEAPONS CENTER                             | CHINA LAKE, CA.    | 249.833 | 132.774                  | 145.745  | 86.486  | 513           | 3966       | 0          | 127           | 39       | 1387       |

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TAPLE 44. NAVY BED FACTLITIES DATA, EY 1975

|                                            |                    |            | SPACE                            | Alebaued ükv süvdü | £          | COST (#11.150%) \$) | (\$ 180£ |
|--------------------------------------------|--------------------|------------|----------------------------------|--------------------|------------|---------------------|----------|
|                                            |                    | 0          | CPACE (THRUSANDS OF SQUAPE FFET) | DS 30 SOM          | UAPE FFFT) |                     |          |
| INSTALLATION                               |                    |            |                                  |                    |            | 7430                |          |
|                                            |                    | Jac.)V     | ABULTAUBTT SECOT                 | MIMIN              | OTHER.     | PEUPERTY ECUIPMENT  | INSHAIM) |
| AFPOSPACE MEDICAL PESFARCH LABORATOPY      | PENSACCLA, FL.     | •          | 167.657                          | 0,00               | 11.649     | 3.130               | 3.583    |
| Alp Development Center                     | JOHNSVILLE, PA.    | 1£ ë       | 125.433                          | 84.00              | 075.759    | 37.05               | 41.75    |
| AIP ENGINEERING CENTER                     | LAKELIJPST.N.J.    | 17-17      | 276.753                          | 204.247            | 2144.783   | 96.255              | 75.413   |
| ASCITE PESEAPCH LA PAITCRY                 | * TSBOACT &        | 497        | 45.706                           | 15.007             | 241.07×    | 35,000              | 0.000    |
| PIGSCIENCES LANGHATORY                     | CAKLANC.CA.        | u          | 77.625                           | B.731              | 34.66      | 1.066               | 607.     |
| PLOCO PESFAPCH LAFOPATORY                  | CHFL SFA.MA.       | -          | 14.720                           | 7.346              | P-300      | C • \$00            | 1.216    |
| CIVIL ENGINEEPING LARCHATCHY               | POPT HIENERS CA.   | 30         | 117.920                          | 27.961             | 46.181     | 2.000               | 2.393    |
| CLOTHING E TEXTILE PESEAPCH FACILITY       | NATICK, MA.        |            | 16,936                           | 7.090              | 3.000      | 0.440               | 6.850    |
| COASTAL SYSTEMS CENTED                     | PAMAMA CITY, FL.   | 682        | 345.947                          | 34.150             | 247.630    | 31,35               | 16.559   |
| DAVID W. TAYLOR SHIP RED CENTER            | PETHESDA . HD.     | 325        | 1626.739                         | 126.079            | 247.139    | 71.007              | 52.325   |
| DENTAL RESEAPCH INSTITUTE, WIC             | GREAT LANCS, IL.   | 0          | 22.625                           | 516.4              | 13,355     | 0.000               | 0.647    |
| ENVIPONMENTAL PREDICTION RESEAPCH FACILITY | #ONTED EY .CA.     | 0          | 1.362                            | 4.658              | 10.594     | 000.0               | 0.483    |
| HEALTH RESEAPCH CENTER                     | SAN DIFFICA.       | -          | 11.17                            | グショ・ラ              | 000-0      | 1.886               | C.401    |
| MEDICAL PESEARCH INSTITUTE                 | PETHESTA . MD.     | •          | 145.865                          | 0.450              | 602.33     | 2.007               | 56701    |
| MEDICAL PESEARCH UNIT NO.2                 | TAIPEL, TAIMAN     | 22         | 32.882                           | 16.975             | 48.364     | 0.101               | 5.804    |
| MEDICAL PESEAPCH LINIT NO.3                | CAIPG, EGVPT       | <b>u</b> ` | 41.06\$                          | B-942              | 25.729     | 1.674               | 0.711    |
| OCEAN R & D ACTIVITY                       | *SH*SINOT'S AVE    | *          | 27.454                           | 18.633             | 17.749     | 906° 6              | 3,200    |
| OCEAN SYSTEMS CENTER                       | SAN DIFGO,CA.      | 3837       | 1360.727                         | 213.208            | 185.555    | 36.549              | 127.829  |
| PEPSONNEL PESEARCH & DEVELOPMENT CENTER    | SAM DIFGO.CA.      | -          | 56.58                            | ジョン・と              | 6.000<br>5 | 0.387               | 2.176    |
| RESEARCH LABORATORY                        | MASHINGTON , D. C. | 198        | 2321-146                         | 192.496            | 762.164    | 91.892              | £16.00   |
| SUBMAPINE MEDICAL RESEARCH LABORATORY      | GRETCH, CT.        | -          | 46.514                           | 14.099             | 000-3      | 1.105               | 1.769    |
| SURFACE WEAPONS CENTER                     | SILVEP SPPING+MC.  | 5381       | 1672.370                         | 153.731            | 971.745    | 93.726              | P6.152   |
| UNDEPSEA RANGES DEPARTMENT                 | NEWDOOT, PI.       | 1042       | 79.603                           | 17.239             | 306.012    | 53.800              | 1.782    |
| IMOFPHATEP SYSTEMS CENTER                  | MENDINT, DI.       | 350        | 299*666                          | 105.446            | 560.578    | 46.111              | 45.073   |
| WEAPONS CENTER                             | CHIVA LAFF.CA.     | 109422#    | 1395.564                         | 429.128            | 4545.132   | 226.424             | 94.250   |
|                                            |                    |            |                                  |                    |            |                     |          |

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P00.683

1119913 11822,672 1727,533 10993,579

TOTALS

TAPLE 54. AIR FORCE RED LAPORATORIES, PROCRAM AND PERSONNEL DATA, EY 1978 FINDING DATA (MILLIONS \$)

PERSONNEL DATA

| 2017<br>2017<br>2018<br>438<br>458<br>1159<br>208<br>91<br>607<br>101<br>101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| PROF PROF PROF PROF PROF PROF PROF PROF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                          |
| 010 PRI CIV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                          |
| 010101121014014016 015 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | . 17                                                                                                     |
| 382<br>382<br>1225<br>782<br>782<br>750<br>750<br>241<br>260<br>1101<br>156<br>156                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 100                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6758<br>8                                                                                                |
| 14HOUSE<br>12-933<br>12-933<br>93-647<br>23-519<br>0-705<br>0-705<br>1-707<br>1-955<br>10-317<br>7-22-059<br>0-10-285<br>0-10-285<br>0-10-285<br>0-10-317<br>1-22-059<br>0-10-317<br>1-22-059<br>0-10-317<br>1-22-059                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 278-614                                                                                                  |
| TOTAL TOTAL IN  14-055 76-102 1  16-381 259-916 5  26-759 132-364 2  2-080 5-266 2  1-279 6-775 25-31 7  16-07 22-220 10-07 22-230 10-07 22-22 3  16-105 13-165 10-165 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38-801 13-695 38- | 1718.399 398.2641003.930 278.614                                                                         |
| 10141<br>104-053<br>108-053<br>108-053<br>108-053<br>108-059<br>108-075<br>108-075<br>108-075<br>108-075<br>108-075<br>108-075<br>108-075<br>108-075                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 398.264                                                                                                  |
| TOTAL  | 1718.399                                                                                                 |
| WPAFE+CM+ EGLIN AFE+EL+ WPAFF+CH+ WPAFF+CH+ USAF ACADEMY+CC+ HANSCCM AFE+MA+ WPAFE+CH+ WPAFE+CH+ WPAFE+CH+ WPAFE+CH+ WPAFE+CH+ WPAFE+CH+ WPAFE+CH+ WPAFE+CH+ WANTOTEMY+CC+ | •                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | WEAPONS LAROPAIUNY 6570 AEPOSPACE WEDICAL PESEAPCH LAPORATORY 7074 AEPOSPACE WEDICAL PESEAPCH LAPORATORY |

TARLE 64. AIP FORCE PLO FACILITIES DATA, FY 1978

| INSTALLATION  PEPO PROPULSION LAPOBATORY  MARKET PROFILED |
|-----------------------------------------------------------|
| EGLIN AFR, FL.                                            |
| De a se                                                   |
| TANCEL AFRANCE.                                           |
|                                                           |
| USAF ACADEMY + CO                                         |
| BOTON AED TV                                              |
| MONEY OF                                                  |
|                                                           |
|                                                           |
| さんじょうしゅう まんじゅぎゅうしゅう                                       |
| ,                                                         |
| Kirilawi Aresa.                                           |
| AYATS CE.                                                 |
|                                                           |

TABLE 7A. NEFAPTHENT CF DFFFWSF POTCF FACILITIES LATA. FY 1977

COST (MILLIONS 8)

| REAL                             | 7.911 4.512               | 7,911 4,512                              |        |
|----------------------------------|---------------------------|------------------------------------------|--------|
| RF FEET)                         | CTHER<br>Se. 834          | \$5.03                                   |        |
| 95 DF 50UA                       | 45×14<br>21.049           | 21.049                                   |        |
| SPACE (THOUSANDS OF SQUAPF FEET) | ACRES LABORATORY ADMIN CT | 10 42,335 21,049 56,834                  |        |
|                                  | !                         | 0ETTFSD#+*D*                             |        |
|                                  | INSTALLATIOH              | ARMED FORCES RADIOFICICGY PSCH.INSTITUTE | TOTALS |

TABLE 8 - ARMY RESEARCH AND DEVELOPMENT LABORATORY ORGANIZATIONAL RELATIONSHIPS

# COMPAND CHAIN

|                                               | INTERMEDIATE            | COMMAND             |
|-----------------------------------------------|-------------------------|---------------------|
| AEROMEDICAL RESEARCH LABORATORY               | MEDICAL RED COMMAND     | THE SURGEON GENERAL |
| ATMOSPHERIC SCIENCES LABORATORY               | ELECTRONICS PAD CYD     | MAT DEV & READ CYD  |
| AVIATION R&T LABORATORY                       | AVIATION RED COMMEND    | MAI DET & READ OND  |
| AVIONICS R&D ACTIVITY                         | AVIATION RAP COMMAND    | MAT DEV & READ CHO  |
| BALLISTIC RESEARCH LABORATORY                 | appeared red commend    | MAT DEV & READ CMD  |
| CHEMICAL SYSTEMS LABORATORY                   | ARVANETT RSD COPPAND    | MAT DEV & READ CYD  |
| COLD REGIONS REE LABORATORY                   | -                       | CHIEF OF ENGINEERS  |
| COMBAT SURVEILLANCE & TARGET ACQUISITION LAB  | ELECTRONICS RED COMMEND | MAT DEV & READ CMD  |
| COMMUNICATIONS RED COMMEND                    | 1                       | MAT DEV & READ CYD  |
| CONSTRUCTION ENGINEERING RSCH LABORATORY      | ŀ                       | CHIEF OF ENGINEERS  |
| ELECTRONIC WARFAFF LABORATORY                 | ELECTRONICS RED COMMEND | MAT DEV & READ CMD  |
| ELECTRONICS TECHNOLOGY & DEVICES LABORATORY   | ELECTRONICS RED COMMAND | MAT DEV & READ CM   |
| ENGINEER TOPOGRAPHIC LABORATORIES             | -                       | CHIEF OF ENGINEERS  |
| ENGINEER WATERWAYS EXPERIMENT STATION         |                         | CHIEF OF ENGINEERS  |
| FIRE CONTROL & SMALL CALIBER WPNS SYSTEMS LAB | APMANEST R&D COMMAND    | MAT DEV & PEAD CMD  |
| HARRY DIAMOND LABORATORIES                    | ELECTRONICS RED COMMAND | MAT DEV & READ CYD  |
| HUMAN ENGINEERING LABORATORY                  | ! !                     | MAT DEV & READ CYD  |
| INSTITUTE OF DENTAL RESEARCH                  | MEDICAL RED CORMAND     | THE STRGEON GENERAL |
| INSTITUTE OF SURGICAL RESEARCH                | MEDICAL RED COMMAND     |                     |
| LARGE CALIBER WEAPONS SYSTEMS LABORATORY      | APPEARENT RED COMMEND   | MAT DEV & READ CMD  |
| LETTERMAN ARMY INSTITUTE OF RESEARCH          | MEDICAL RED COMMAND     | THE SURGEON GENERAL |
|                                               | 1                       | MAT DEV & READ CYD  |
| MEDICAL BIOENGINEERING R&D LABORATORY         | MEDICAL RED COMMEND     | THE SURGEON GENERAL |
| MEDICAL R&D COMMAND                           | 1                       | THE SURGEON GENERAL |
| MEDICAL RESEARCH INST OF INFECTIOUS DISEASES  | MEDICAL RED COMMAND     | THE SURGEON GENERAL |
| MISSILE RED COMMAND                           | 1                       |                     |
| MOBILITY EQUIPMENT R&D COMMAND                | 1                       | MAT DEV & READ CHD  |
| NATICK RED COMMEND                            |                         | DEV &               |
| NIGHT VISION & ELECTRO-OPTICS LABORATORY      | ELECTRONICS RED COMMAND | MAT DEV & READ CHD  |
|                                               |                         |                     |

Table 8 - ARMY RESEARCH AND DEVELOPMENT LABORATORY ORGANIZATIONAL RELATIONSHIPS

# CREMAND CHAIN

|                                                                                                                                                     | बाष्ट्रा त्यास्य वर्षा                  | COMAND                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------|
| RES INST FOR BEHAVIORAL & SOCIAL SCIENCES                                                                                                           |                                         | DEPUTY CHIEF OF SIAFF FOR                                                               |
| RESEARCH INSTITUTE OF ENVIRONMENTAL MEDICINE<br>SIGNALS WARPARE LABORATORY<br>TANK-AUTOMOTIVE R&D COMMAND<br>WALTER REED ARMY INSTITUTE OF RESEARCH | MEDICAL RED COMMEND ELECTRONICS RED CMD | PPRSONNEL THE SURGEON GENEPAL MAT DEV & READ CMD MAT DEV & READ CMD THE SURGEON GENERAL |

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TABLE 9 - NAVY RESEARCH AND DEVELOPMENT LABORATORY ORGANIZATIONAL RELATIONSHIPS

# COMMAND CHAIN

| COMMAND      | CHIEF, BUR OF MED/SUR                 | CHIEF OF NAVAL MATERIAL | CHIEF OF NAVAL MATERIAL | CHIEF OF NAVAL RESEARCH    | CHIEF OF NAVAL RESEARCH | CHIEF, BUR OF MED/SUR     | CHIEF OF NAVAL MATERIAL      | CHIEF OF NAVAL MATERIAL                  | CHIEF OF NAVAL MATERIAL | CHIEF OF NAVAL MATERIAL         | CHIEF, BUR OF MED/SITE         | CHIEF OF NAVAL MATERIAL                    | CHIEF RIE OF MEN/SITE  | CHIEF BIR OF MEN/CIR       | CUITE BITE OF MED /CITE     | CHIEF, BUR UF RED/SUR       | CHIEF, BUR OF MED/SUR | CHIEF OF NAVAL RESEARCH | CHIEF OF NAVAL MATERIAL               | CHIEF OF NAVAL MATERIAL                   | CHIEF OF NAVAL RESEARCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CHIEF, BUR OF MED/SUR                 | CHIEF OF NAVAL MATERIAL | CHIEF OF NAVAL MATERIAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CHIFF OF NAVAL MATERIAL   | CHIEF OF NAVAL MATERIAL |
|--------------|---------------------------------------|-------------------------|-------------------------|----------------------------|-------------------------|---------------------------|------------------------------|------------------------------------------|-------------------------|---------------------------------|--------------------------------|--------------------------------------------|------------------------|----------------------------|-----------------------------|-----------------------------|-----------------------|-------------------------|---------------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------|
| INTERMEDIATE | MEDICAL R&D COMMAND                   | -                       | AIR SYSTEMS COMMAND     | 1                          | 1                       | MEDICAL R&D COMMAND       | FAC ENG COFFMAND             | SUPPLY SYS COMMAND                       | 1                       | í                               | MEDICAL R&D COMMAND            | AIR SYSTEMS COMMAND                        | MEDICAL RED COMMAND    | MEDICAL RED COMMAND        | 15 X                        |                             |                       | 1                       | 1                                     | 1                                         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MEDICAL RED COMMAND                   | !                       | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           | 1                       |
|              | AEROSPACE MEDICAL RESEARCH LABORATORY | AIK DEVELUPMENI CENTER  | AIR ENGINEERING CENTER  | PROLIC RESEARCH LABORATORY | BIOSCIENCES LABORATORY  | BLUUD KESEAKCH LABOKATOKY | CIVIL ENGINEEKING LABORATORY | COASTAI COSTING OFFICE RESEARCH FACILITY | COASIAL SISIERS CENIER  | DAVID W. TAILCR SHIP KAD CENTER | DENIAL RESEARCH INSTITUTE, NTC | ENVIRONMENTAL PREDICTION RESEARCH FACILITY | HEALTH RESEARCH CENTER | MEDICAL RESEARCH INSTITUTE | MEDICAL RESEARCH UNIT NO. 2 | MEDICAL RESEARCH UNIT NO. 3 | OCEAN R&D ACTIVITY    | OCHAN CVCTEMC CENTER    | PEDCONNET DECEADON ( DENTE OF COMPANY | PECEABOUNEL RESEARCH & DEVELOPMENT CENTER | CITATION TITE AND TALL THE TOTAL TOT | SUBMAKINE MEDICAL RESEARCH LABORATORY | CONTROL WEATONS CENTER  | THE THE THE PARTY OF THE PARTY | UNDERWALER SYSTEMS CENTER | WEAPONS CENTER          |

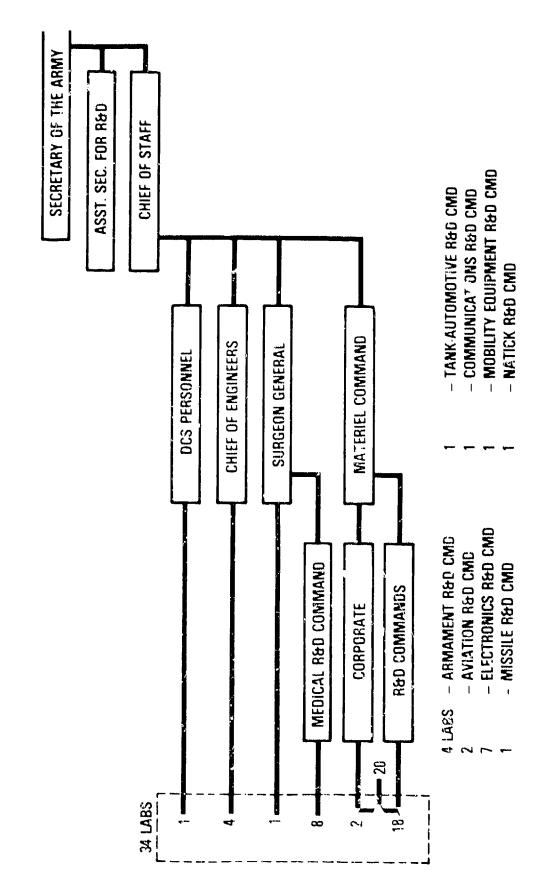
TABLE 10 AIR FORCE RESEARCH AND DEVELOPMENT LABORATORY ORGANIZATIONAL RELATIONSHIPS

# COMMAND CHAIN

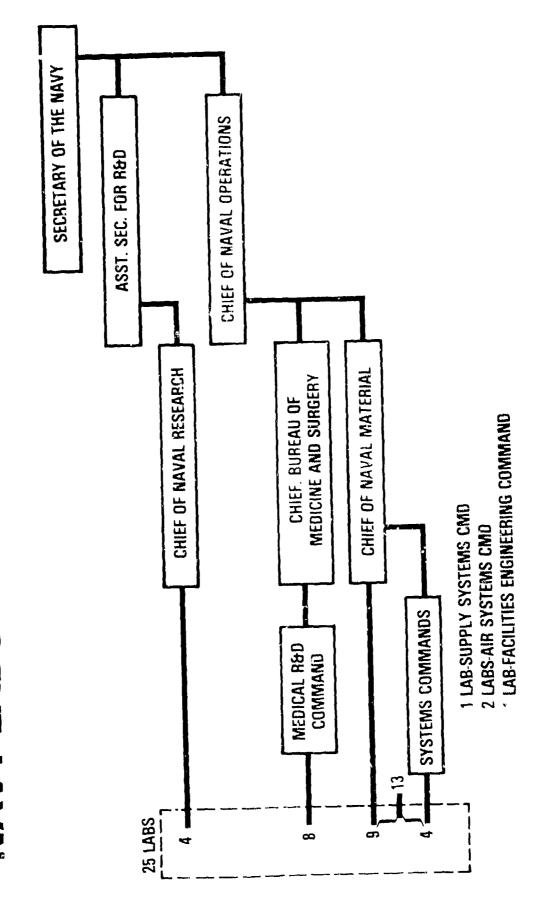
|                                            | INTERMEDIATE                | COMMAND            |
|--------------------------------------------|-----------------------------|--------------------|
| AEROPROPULSION LABORATORY                  | WRIGHT AERONAUTICAL LABS    | AF SYSTEMS COMMAND |
| *ARMAMENT LABORATORY                       | ARMAMENT DEV & TEST CENTER  | AF SYSTEMS COMMAND |
| AVIONICA LABORATORY                        | WRIGHT AERONAUTICAL LABS    | AF SYSTEMS COMMAND |
| CIVIL AND ENVIRONMENTAL ENG DEV OFFIC      | ENGINEERING SERVICES CENTER | HO US AIR FORCE    |
| FLIGHT DYNAMICS LABORATORY                 | WRIGHT AERONAUTICAL LABS    | AF SYSTEMS COMMAND |
| FRANK J. SEILER RESEARCH LABORATORY        | OFFICE OF SCIENTIFIC RES    | AF SYSTEMS COMMAND |
| GEOPHYSICS LABORATORY                      | -                           | AF SYSTEMS COMMAND |
| HIMAN RESOURCES LABORATORY                 |                             | AF SYSTEMS COMMAND |
| MATERIALS LABORATORY                       | WRIGHT AERONAUTICAL LABS    | AF SYSTEMS COMMAND |
| ROCKET PROPULSION LABORATORY               | -                           | AF SYSTEMS COMMAND |
| ROME AIR DETELOPMENT CENTER                | ELECTRONIC SYSTEMS DIVISION | AF SYSTEMS COMMAND |
| SCHOOL OF AEROSPACE MEDICINE               | AEROSPACE MEDICAL DIVISION  | AF SYSTEMS COMMAND |
| WEAPONS LABORATORY                         |                             | AF SYSTEMS COMMAND |
| 6570 AEROSPACE MEDICAL RESEARCH LABORATORY | AEROSPACE MEDICAL DIVISION  | AF SYSTEMS COMMAND |

(For Armament Laboratory, see Armament \* Laboratory portion not reported separately in this report. Development and Test Center.)

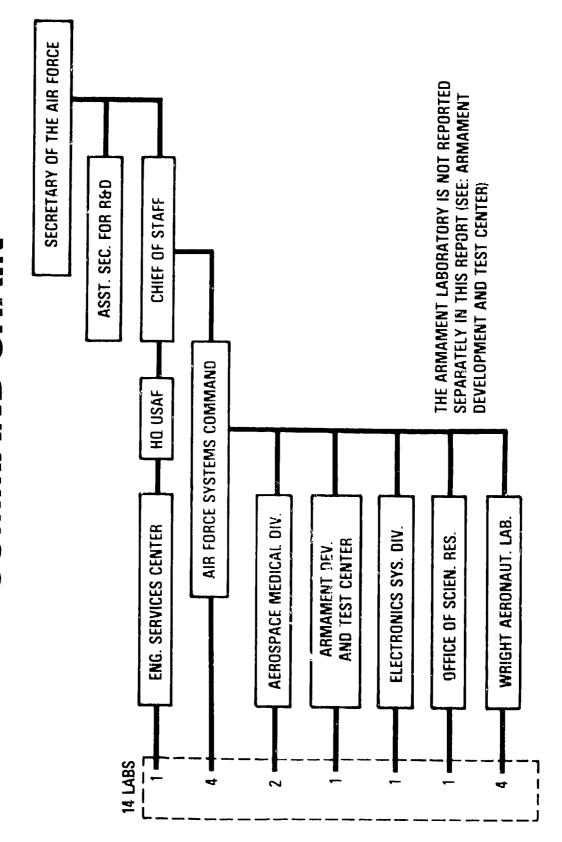
# ARMY LABORATORIES COMMAND CHAIN



# NAVY LABORATORIES COMMAND CHAIN



# AIR FORCE LABORATORIES COMMAND CHAIN



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INSTALLATION: AEROMEDICAL RESEARCH LABORATORY

CDR.COL. STANLEY C. KNAPP

|               | PROGRAM           | A DATA BY FISCA | L YEAR (MILLION | \$7                 |
|---------------|-------------------|-----------------|-----------------|---------------------|
| PROGRAM       |                   | 1978            | 1979            |                     |
|               |                   | (ACTUAL)        | (ACT + FST)     |                     |
| TOTAL ROTEE   |                   | 3.268           | 3.206           |                     |
| TOTAL PROCURI | MEN T             | 0.000           | 0.000           |                     |
| TOTAL DEM     |                   | 0.01R           | 0.000           |                     |
| YOTAL OTHER   |                   | 1.083           | 1.300           |                     |
| TOTAL ANNUAL  | LAB               | 4.369           | 4.506           |                     |
| TOTAL INHOUS  | <b>;</b>          | 4.105           | 4.167           |                     |
| TOTAL INHOUSE | F RD1&F           | 3.004           | 2.867           |                     |
| ANNUAL OPERA  | TING COST         | 1.280           | 1.485           |                     |
|               | PERSONNEL DA      | ATA LEND OF FY  | 1978)           |                     |
| PERSONNEL     | <b>AUTHORIZED</b> | TOTAL           | TOTAL           | <b>-NC</b> <i>N</i> |
|               | STRENGTH          | PHDS            | PROF            | PROF                |
| MILITARY      | 69                | 7               | 26              | 43                  |
| CIVILIAN      | 71                | 6               | 28              | 43                  |
| TOTAL         | 140               | 13              | 54              | 86                  |
|               | SPA               | CE AND PROPERTY | ,               |                     |
| ACRES         | SPACE (THOUSAND   | DS OF SQUARE FE | ET) COST        | (MILLION &)         |
|               | LAB ADI           | MIN OTHER       | TOTAL REAL      | PROP EQUIP          |
| 10            | 50.747 7.º        | 797 21.88A      | 82.428 0        |                     |

# ...MISSION

CDT FUND MTL/APPID RSCH ON MED ASPECTS OF AAVN.ABN & GND OPNS AFFECTING HLTH, WLF & EFFCY OF SCLDIER; PERF MED RSCH ON VIS/AUD FUNC; MAN/MACH INTEGRATION; MED ASPECTS OF NONMED HAT; PHYSIO/PSYCHO RSPNS TO OPNL ENVMNT & MIL OPNL TNG IMPACTS UPON ECOLOGY. PRIME DOD CONSULT IN ALL AREAS.

# ...CURRENT IMPORTANT PROGRAMS

MED HAZ ASSESSMENT OF MAJ WEAPON SYSTEMS
RSCH & DEV OF MED FACTORS INFLUENCING VEH & WPNS CREW PERFORMANCE
RSCH OF VIS & PSYCHOACOUSTICAL FACTORS OF MED IMPORTANCE TO ARMY CBT SYS
DIRECT APPLIED RSCH & DEV SPT TO ARMY AVN
FUNDAMENTAL BIOMED RSCH & DEV TO ESTB EQUIP ENVMNT & TASK DESIGN CRIT

## ...FUNCTIONS/EQUIPMENT/CAPABILITIES

ANECHDIC CHAMBER; COLORIMETER; ECG & EEG MACH, AUTOANALYZER; MASS SPECTRO; 3 DEGREE FREEDOM CLOSED-LOOP SERVOHYDRAULIC HEL SEAT MNTD SIMULATOR; SEQ MULTIANALYZER-COMPUTERIZED; SIMUHTMS (HEL SIMULATOR); HYBRID CPMT SYS (SEL -8500 DIGITAL MAINFRAME; SAI-681 ANALOG MAINFRAME; SAI-693 COMM INTERFACE; IMLAC PDS-10 DISPLAY PROCESSOR); FAST FOURIER SOUND ANALYZER; PHOTOMETRY LAB W/AUTOMATIC CIE ANAL RAPID SCAN SPECTROMETER TRACEABLE TO BU OF SYDS; DROP TOWER FOR ANSI EVAL OF HEL SYS; THREE AXES PEGASUS MAN-RATED VIB PLATFORM W/HARDWIRE CMPT CONT/ANAL SYS CAPABLE OF MOYING 600 LB LOAD 0-50 M/Z DB ERROR; HEMISPHERE M/SENSORS TO DETM HEAD PNTING CAPABILITY FOR USE IN CONJ M/VIB PLATFORM FOR DYNAMIC STUDIES; EMERG PHYSICIAN CALL SYS (10 MILE RADIUS); ELECTRON MICROSCOPES (2 EA); AUTOMATED TISSUE FIXATION SYS; ABN EQUIP; BIOCHEM LAB; ELECTRONIC & ENGR FAB SHOP & PHOTO LAB.

INSTALLATION: AIR DEFENSE BOARD

EL PASO.TX.

PRES.COL. JAMES C. CROSBY

|               | PROG         | RAM DATA B  | Y FISCA | L YEAR (MT  | LLION \$) |          |
|---------------|--------------|-------------|---------|-------------|-----------|----------|
| PROGRAM       |              | 1978        |         | 1979        |           |          |
|               |              | (ACTUAL     | )       | (ACT + FST  | )         |          |
| TOTAL ROTEE   |              | 2.          | 872     | 3.0         | 52        |          |
| TOTAL PROCURE | MENT         | 2.          | .062    | 1.4         | 06        |          |
| TOTAL ORM     |              | 0.          | 074     | 0.0         | 10        |          |
| TOTAL OTHER   |              | 1.          | 963     | 2.0         | 33        |          |
| TOTAL ANNUAL  | LAB          | 6.          | 971     | 6.5         | 01        |          |
| TOTAL INHOUSE |              | 6.          | 971     | 6.5         | 01        |          |
| TOTAL INHOUSE | RDT&F        | 2 .         | 872     | 3.0         | 52        |          |
| ANNUAL OPERAT | ING COST     | 0.          | 349     | 0.3         | 56        |          |
|               | PERSONNEL    | . DATA (EN  | D OF FY | 1978)       |           |          |
| PERSONNEL     | AUTHORIZED   | TO          | TAL     | TOTA        | L         | NON-     |
|               | STRENGTH     | t           | HDS     | <b>ም</b> ጽብ | F         | PROF     |
| MILITARY      | 117          |             | 0       | 25          |           | 92       |
| CIVILIAN      | 87           |             | 0       | 11          |           | 76       |
| TOTAL         | 204          |             | 0       | 36          |           | 168      |
|               | •            | SPACE AND   | ROPERTY |             | ·         |          |
| ACRES         | SPACE (THOUS | SANDS OF SO | UARE FE | ET)         | COST IMIL | LION \$) |
|               | ₹.AB         | ADMIN       |         |             | REAL PROP | EQUIP    |
| 26            | 36.550       | 36.326      | 30.114  | 102.990     | 1.895     | 9.700    |

...MISSION

PLAN, CONDUCT, & REPORT ON OPERATIONAL TEST I, OPERATIONAL TEST II, OPERATIONAL TEST III, & OTHER USER-TYPE TESTS OF AD WEAPON SYS, FIRE DISTRIBUTION SYS, FLECTRONIC COUNTER MEASURES & COUNTER-COUNTER MEASURES EQUIP & DEVICES & TARGET DEVICES. PARTICIPATE IN DT I, DT II & DT III.

...CURRENT IMPORTANT PROGRAMS

SPT OF PATRIOT OT II

SPT OF DIVISION AIR DEFENSE ARTILLERY (DIVADA)

SPT OF AN/TSO-73 FOE II

MULTISTATIC RADAR SURVFILLANCE SYSTEM

CONCEPT EVALUATION OF EW COUNTERMEASURES SET IN THE AD ROLE

...FUNCTIONS/EQUIPMENT/CAPABILITIES
REVIEW & COMMENT ON TRAINING DEVICE REQUIREMENTS DOCUMENTS, ORGANIZATION
PHASE DOCUMENTS, NEW EQUIPMENT TRAINING PACKAGES, & ASSIST IN REVIEW OF
MILITARY SPECS. PROVIDE TRADOC TEST REQUIREMENTS FOR THE COORDINATED
TEST PROGRAM. PLAN, DIRECT & CONTROL A PROGRAM IN TEST METHODOLOGY,
TEST INSTRUMENTATION, & TEST FACILITIES NEEDED TO SUPPORT CURRENT &
FUTURE TEST REQUIREMENTS WITHIN ASSIGNED MISSION AREA. SPT FIELD RE—
SEARCH, STUDIES, TESTS, & OFFRATIONS OF TRADOC, DA OR DOD AGENCIES AS
REQUIRED & DIRECTED BY CG USA AIR DEFENSE CENTER & FORT BLISS.
EQUIPMENT: ACESS TO COMPUTER, TAC & INSTRUMENTATION RADAR, AUTOMATED
DATA ACQ SYS,RICS, CINETHEODOLITES, PHOTO LAB & FILM READING EQUIP,
SITE MONITOR FOR ELECTRONICS TEST OF EQUIP & DONA ANA & NORTH MCGREGOR
RANGES FOR FIRING FORWARD AREA WEAPONS AT TARGET DEVICES & DRONES

Market Committee and the second of the secon

INSTALLATION: AIRBORNE BOARD

FT.BRAGG, N.C.

PRES.COL.G.G. THOMAS.JR.

ENGR.ADV.MR. GEORGE G. GORE

|                       | PROGRAM DATA BY FISCAL | YEAR (MILLION \$) |
|-----------------------|------------------------|-------------------|
| PROGRAM               | 1978                   | 1979              |
|                       | (ACTUAL) (             | ACT + FST)        |
| TOTAL ROTEE           | 2.017                  | 1.032             |
| TOTAL PROCUREMENT     | 0.000                  | 0.000             |
| TOTAL DEM             | 0.206                  | 0.000             |
| TOTAL OTHER           | 1.183                  | 1.000             |
| TOTAL ANNUAL LAB      | 3.406                  | 2.032             |
| TOTAL INHOUSE         | 3.406                  | 2.032             |
| TOTAL INHOUSE RDT&F   | 2.017                  | 1.032             |
| ANNUAL OPERATING COST | 1.000                  | 0.877             |
|                       |                        |                   |

|           | PERSONNEL DATA | (END OF F | Y 1978) |      |
|-----------|----------------|-----------|---------|------|
| PERSONNEL | AUTHORIZED     | TOTAL     | TOTAL   | NON- |
|           | STRENGTH       | PHDS      | PROF    | PROF |
| MILITARY  | 87             | 0         | 14      | 73   |
| CIVILIAN  | 41             | 0         | 6       | 35   |
| TOTAL     | 128            | 0         | 20      | 108  |

|       |            | SPACE AN  | D PROPERTY |        |            |         |
|-------|------------|-----------|------------|--------|------------|---------|
| ACRES | SPACE (THO | USANDS OF | SQUARE FE  | ET }   | COST (MILL | ION \$) |
|       | LAB        | ADMIN     | OTHER      | TOTAL  | REAL PROP  | EQUIP   |
| 27    | 3.978      | 3.914     | 39.390     | 47.282 | 0.971      | 3.651   |

# ...MISSION

THE MISSION OF THE ABN BD IS TO PLAN, CONDUCT AND REPORT ON OTI & II, FDTE AND OTHER USER TYPE TESTS OF AIRBORNE ITEMS; PARTICIPATE IN DT I, II & III AS DIRECTED; PROVIDE ADVICE AND GUIDANCE ON TEST AND EVALUATION MATTERS. CONDUCT SPECT'S TESTS & EVALUATIONS AS DIRECTED.

...CURRENT IMPORTANT PROGRAMS
LAPES
STANDARD AIROROP OF SELECTED ITEMS OF EQUIPMENT
EXTERNAL AIR TRANSPORTABILITY
G-11B CARGO PARACHUTE
FAMILY OF HELICOPTER EXTERNAL SLINGS

## ...FUNCTIONS/EQUIPMENT/CAPABILITIES

FACILITIES INCLUDE: MAIN OFC BLDG, ABN HANGAR, INSTRUMENTATION/DESIGN INTERFACING SECTION, COMBINED SHOP & ADP FACILITY. MAJOR EQUIPMENT INCLUDES: 25-TON CRANE, 2 20-TON MOBILE CRANES, 5-TON WRECKER, 40,000 LB ACFT LDADER, THREE T-28B MODEL ACFT, 1 UH-1H HELICOPTER, VARIOUS TYPES OF STANDARD PARACHUTES, NINE GASOLINE GENERATORS, DIGITAL THEODOLITES, WEATHER STATION, ELECTRONIC DIAGNOSTIC EQUIPMENT, VOLTMETERS, AMMETERS, SPECTRUM ANALYZERS, SOUND & VIBRATION ANALYZERS, TIME MARK GENERATORS, OSCILLOSCOPES, MULTIMETERS, RANDOM NOISE GENERATORS, POWER SUPPLIES, Q METERS, ATTENUATORS, GRAPHIC LEVEL RECORDERS, 16MM CAMERAS, FILM ANALYZER S, PORTABLE VIDEO EQUIPMENT, VAN METER, ANALOG TAPE RECORDER, 1 GRAPHIC LEVEL, FREQUENCY COUNTERS, SOUND LEVEL CALIBRATORS, METER CALIBRATORS, MEGUHMMGTER.

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61

272

INSTALLATION: AIRCRAFT DEVELOPMENT TEST ACTIVITY

CDR.COL. WILLIAM E. CROUCH, JR. TECH.DIR.DR. JAMES S. KISHI

| •                     | PROGRAM DATA BY FISCAL                | YEAR (MILLION \$) |      |
|-----------------------|---------------------------------------|-------------------|------|
| PROGRAM               | 1978                                  | 1979              |      |
|                       | (ACTUAL) (                            | ACT + EST)        |      |
| TOTAL ROTGE           | 6.747                                 | 7.409             |      |
| TOTAL PROCUREMENT     | 0.198                                 | 0.422             |      |
| TOTAL DEM             | 1.091                                 | 2.089             |      |
| TOTAL OTHER           | 2.193                                 | 3.677             |      |
| TOTAL ANNUAL LAB      | 10.229                                | 13.597            |      |
| TOTAL INHOUSE         | 6.206                                 | 8.553             |      |
| TOTAL INHOUSE ROTGE   | 3.190                                 | 3.369             |      |
| ANNUAL OPERATING COST | 5.344                                 | 5.573             |      |
| PER                   | SONNEL DATA (END OF FY                | 1978)             |      |
| PERSONNEL AUTHOR      | · · · · · · · · · · · · · · · · · · · | TOTAL             | NON- |
| STRE                  | NGTH PHDS                             | PROF              | PROF |
| MILITARY              | 217 0                                 | 26                | 191  |

|       |            | SPACE AN  | D PROPERTY |         |            |         |
|-------|------------|-----------|------------|---------|------------|---------|
| ACRES | SPACE (THO | USANDS OF | SQUARE FEE | ET)     | COST (MILL | ION \$) |
|       | LAB        | ADMIN     | OTHER      | TOTAL.  | REAL PROP  | EQUIP   |
| 1196  | 0.000      | 39.124    | 118.026    | 157.150 | 1.782      | 26.051  |

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## ...MISSION

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TOTAL

TO PLAN, CONDUCT, EVALUATE, AND REPORT ON THE GOVERNMENT TEST ELEMENTS— EDT-G, ADVT-G, POT-G, PVT-G, AND TO MONITOR, EVALUATE, AND REPORT ON CONTR TESTS UNDER SIDTC CONCEPT FOR AIRCRAFT, AIRCRAFT COMPONENTS AND RELATED EQUIPMENT. CONDUCT OTHER TESTS AND EVALUATIONS AS DIRECTED BY TECOM.

...CURRENT IMPORTANT PROGRAMS

AAH DEVELOPMENT TEST PROGRAM

UH-60A BLACKHAWK DEVELOPMENT TEST PROGRAM

CH-47C RAM/712 ENGINE TEST PROGRAM

ALQ-136 RADAR JAMMER DEVELOPMENT TEST

APR-39 RADAR WARNING RE CEIVER DEVELOPMENT TEST

93

310

...FUNCTIONS/EQUIPMENT/CAPABILITIES
PLAN, CONDUCT, RECORD, EVALUATE AND REPORT RESULTS OF ASSIGNED TESTS & EVAL.
SUPPORT DT EFFORTS OF COMMODITY COMMANDS RESP FOR DEV OF AVN MATERIEL.
PERFORM SOLDIER TESTING TO EVAL HEE, SAFETY, AND MAN-MACHINE INTERFACE.
PROVIDE DATA CONCERNING OPERATIONS UNDER EXTREME ENVIRONMENTAL COND.
CONDUCT PI T STS OF FIELDED AVN MATERIEL TO IMPROVE SYSTEM CAP & RAM.
REVIEW AND COMMENT ON NEW EQUIPMENT TRAINING PACKAGES.
PARTICIPATE IN THE DEVELOPMENT AND REVIEW OF MILITARY SPECIFICATIONS.
PROVIDE ADVICE & GUIDANCE ON TAE MAT TO DEVELOPERS, PRODUCERS & INDUSTRY.
PROVIDE AIRCRAFT & SUPPORT AS REQUESTED TO SPT US ARMY SPONSORED TESTS.
PARTICIPATE IN CONDUCT OF COMB DIZOT & ORSERVES OT WHEN DIRECTED.
SUPPORT FIELD REJEARCH, STUDIES & TESTS AS REQ & DIR BY CG. TECOM.
PROVIDE TECOM TEST REQUIREMENTS FOR COORDINATED TEST PROGRAMS.

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INSTALLATION: ARMOR AND ENGINEER BOARD

... FUNCTIONS/EQUIPMENT/CAPABILITIES

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PRES.COL. JIMMY L. PIGG

CIV.TECH.DIR.MR. JAMES C.KETON

|                | PROGRAM         | DATA BY FIS  | CAL YEAR (MILLION | \$)          |
|----------------|-----------------|--------------|-------------------|--------------|
| PR OGR AM      | ,               | 1978         | 1979              | • •          |
|                |                 | (ACTUAL)     | (ACT + EST)       |              |
| TOTAL ROTEE    |                 | 6.128        | 5.885             |              |
| TOTAL PROCUR   | FMFNY           | 0.171        | 0.737             |              |
| TOTAL DEM      |                 | 0.103        | 0.472             |              |
| TOTAL OTHER    |                 | 3.233        | 3.518             |              |
| TOTAL ANNUAL   | 1 AR            | 9.635        | 10.617            |              |
| TO THE MITTORE | LMD             | 7 6 0 27.7   | 10.017            |              |
| TOTAL INHOUS   | F               | 9.635        | 10.612            |              |
| TOTAL INHOUS   | E RDTGE         | 6.128        | 5.885             |              |
| ANNUAL OPERA   |                 | 0.500        | 0.559             |              |
|                |                 |              |                   |              |
|                | PERSONNEL DA    | TA (END OF   | FY 1978)          |              |
| PERSONNEL      | AUTHORIZED      | TOTAL        | TOTAL             | NON-         |
|                | STRENGTH        | PHDS         | PROF              | PROF         |
| MILITARY       | 232             | 0            | 74                | 138          |
| CIVILIAN       | 101             | 2            | 12                | 89           |
| TOTAL          | 333             | 2            | 86                | 247          |
|                | ***             |              | <b></b>           |              |
|                |                 | E AND PROPER |                   |              |
| ACRES          | SPACE (THOUSAND |              |                   | (MILLION \$) |
|                |                 | IN OTHER     |                   |              |
| AOOO           | 6.200 54.4      | LSS 151_50R  | 212.163 1.        | 419 2-411    |

## ...MISSION

PLAN, CONDUCT, & REPORT OF I, II, III, FDTE, CEP, TEA, & OTHER USER TESTS OF AR & ENGR FO. PARTICIPATE IN DY I, II, III & SP STUDY OF CML EQ. PROVIDE GUID & ADVICE TO DEVELOPERS, PRODUCERS, OTHER SVCS & PRIVATE INDUSTRY. PLAN, MGT CO-ORDINATE & REPORT ON CVTP. PROVIDE ADM, LOGIS, & OPN SPT TO DCD.

...CURRENT IMPORTANT PROGRAMS
COMBAT VEHICLE TECHNOLOGY PROGRAM
SURFACE LAUNCHED UNIT FUEL AIR EXPLOSIVE (SLUFAE) OT II
GROUND EMPLACED MINE SCATTERING SYSTEM (GEMSS) OT II
VALIDATION OF PROPOSED AERIAL GUNNERY PROGRAM, TNG FFFECTIVE ANALYSIS FOT
XM915 TRUCK TRACTOR, LINE HAUL, 6X4, COMMERCIAL (FOTE)

REMOTE CONTROLLED, VARIABLE SPEED, RELOCATABLE MOVING TARGET; REMOTE CONTROLLED, HIT INDICATING, RELOCATABLE STATIONARY TARGET; TARGET SPOTTING SYSTEM (TSS); VIDEO AUTOMATIC TARGET TRACING SYSTEM (VATTS); SIMEFIRE HIT—KILL INDICATOR; GUN CAMERA, SINGLE FRAME — 35 MM CINE — 16 MM POSITION LOCATION EQUIP; TANK VIDEO SYSTEM; EXPANDABLE TEST INSTRUMENT VAN; 16MM MOTION PICTURE, WITH DATADORS; VIDEO BASED DATA ANALYZING FQ; ADVANCED DIRECT FIRE WEAPONS SIMULATOR SYSTEM; THRU—OPTICS CAMERA ADAPTR GUN ELEVATION DEVICE; TARGET SCORING SYSTEM; SIMFIRE RADIO FREQUENCY. VIDEO HARD COPY UNIT; SGL LENS REFLEX CAMERA; 15 TRANSPONDERS FOR MOTOROLA TRACKING SYSTEM; 40 TON OVERHEAD CRANE; MACHINE SHOP & SHOP

MAINT EQUIP SETS; COMBAT VEH, TACTICAL WHLD VEH; ENGR CONSTR EQ; CALIBRATION MOTOROLA POSITIONING SYSTEMS; ELEVATED CAMERA PLATFORM.

INSTALLATION: ATMOSPHERIC SCIENCES LABORATORY

WHITE SANDS MR.N.M.

CDR.DIR.COL.WILLIAM E.RAWLINSON, JR.

DEP.DIR.HENRY RACHELE

| PROGRAM               | PROGRAM DAYA BY FISC<br>1976 | AL YEAR (MILLION \$1 |
|-----------------------|------------------------------|----------------------|
| FRUORAM               | (ACTUAL)                     | (ACT + EST)          |
| TOTAL ROTGE           | 16.805                       | 19.188               |
| TOTAL PROCUREMENT     | 0.266                        | 0.000                |
| TOTAL DEM             | 0.031                        | 0.060                |
| TOTAL OTHER           | 0.000                        | 0.000                |
| TOTAL ANNUAL LAB      | 17.102                       | 19.248               |
| TOTAL INHOUSE         | 5.324                        | 7.245                |
| TOTAL INHOUSE ROTGE   | 5.067                        | 7.185                |
| ANNUAL OPERATING COST | 3.361                        | 3.837                |

|           | PERSONNEL DATA | (END OF FY | 1978) |      |
|-----------|----------------|------------|-------|------|
| PERSONNEL | AUTHORIZED     | TOTAL      | TOTAL | NON- |
|           | STRENGTH       | PHDS       | PROF  | PROF |
| MILITARY  | 412            | 0          | 13    | 399  |
| CIVILIAN  | 175            | 19         | 86    | 89   |
| TOTAL     | 587            | 19         | 99    | 488  |

| SPACE AND PROPERTY |            |           |           |         |           |          |  |  |
|--------------------|------------|-----------|-----------|---------|-----------|----------|--|--|
| ACRES              | SPACE (THO | USANDS OF | SQUARE FE | ET)     | COST (MIL | LION \$) |  |  |
|                    | LAB        | ADMIN     | OTHER     | TOTAL   | REAL PROP | EQUIP    |  |  |
| 45                 | 61.354     | 81.245    | 17.255    | 159.854 | 18.000    | 23.080   |  |  |

...MISSION
RESPONSIBLE FOR THAT PORTION OF ERADCOM MISSION DEVOTED TO RESEARCH IN ATMOSPHERIC SCIENCES, DEVELOPMENT OF METEOROLOGICAL TECHNIQUES AND EQUIPMENT FOR FIELD ARMY. FURNISH METEOROLUGICAL SERVICES TO ARMY ROTE ACTIVITIES.

\*\*\*CURRENT IMPORTANT PROGRAMS
FIELD ARTILLERY METEOROLOGICAL ACQUISITION SYSTEM
ATMOSPHERIC CHARACTERIZATION (SMOKE/AEROSOLS/ED/NMMW)
REMOTE ATMOSPHERIC SENSING AND PROBING
ATMOSPHERIC MODELS FOR F-O SYSTEMS
METEOROLOGICAL SUPPORT TO ROTE ACTIVITIES

\*\*\*FUNCTIONS/EQUIPMENT/CAPABILITIES
METEOROLOGICAL RESEARCH FACILITY AND CAPABILITY
MOBILE ATMOSPHERIC CHARACTERIZATION EQUIPMENT
ATMOSPHERIC PHYSICS RESEARCH FACILITY AND CAPABILITY
UPPER ATMOSPHERE RESEARCH AND SOUNDING ROCKET FACILITY AND CAPABILITY
ION MASS SPECTROMETER SYSTEM
METEOROLOGICAL SOUNDING ROCKET FACILITIES-N.M., UTAH, ALASKA, CANAL ZONE
REMOTE ATMOSPHERIC SENSING FIELD RESEARCH FACILITY
ATMOSPHERIC SPECTROSCOPY - LASER PROPAGATION FACILITY
METEOROLOGICAL ROTE SUPPORT FACILITIES - ALASKA TO CANAL ZONE
METEOROLOGICAL INSTRUMENTATION TEST, MAINTENANCE, CALIBRATION FACILITY
FACILITY FOR SONIC OBSERVATION OF TRAJECTORY AND IMPACT OF MISSILES
HIGH ENERGY LASER TEST FACILITY

the control of the co

INSTALLATION: AVIATION BOARD

FT.RUCKER, AL.

PRES.COL.ROBERT A. BONIFACID YECH.ADV.GEORGE E. SLAGLEY

|                       | PROGRAM DATA BY FISCAL | YEAR (MILLION \$) |
|-----------------------|------------------------|-------------------|
| PROGRAM               | 1978                   | 1979              |
|                       | (ACTUAL) (             | ACT + FST)        |
| TOTAL ROTEF           | 1.483                  | 1.517             |
| TOTAL PROCUREMENT     | 0.000                  | 0.000             |
| TOTAL OEM             | 0.251                  | 0.635             |
| TOTAL OTHER           | 1.199                  | 1.348             |
| TOTAL ANNUAL LAB      | 2.933                  | 3.500             |
| TOTAL INHOUSE         | 2.629                  | 3.364             |
| TOTAL INHOUSE ROTEF   | 1.374                  | 1.381             |
| ANNUAL OPERATING COST | 1.303                  | 1.301             |
|                       |                        |                   |

|           | PERSONNEL DATA | (FND OF F | Y 1978) |      |
|-----------|----------------|-----------|---------|------|
| PERSUNNEL | AUTHORIZED     | TOTAL     | TOTAL   | NUN- |
|           | STRENGTH       | PHDS      | PROF    | PROF |
| MILITARY  | 79             | 0         | 29      | 50   |
| CIVILIAN  | 36             | 1         | 13      | 23   |
| TOTAL     | 115            | 1         | 42      | 73   |

|       |            | SPACE AN   | PROPERTY   |        |            |         |
|-------|------------|------------|------------|--------|------------|---------|
| ACRES | SPACE (THO | IUSANDS DE | SQUARE FEL | ETI    | COST (MILL | ION \$1 |
|       | LAB        | ADMIN      | OTHER      | TOTAL  | REAL PROP  | EQUIP   |
| 1     | 0.000      | 30.003     | 12.961     | 42.964 | 0.170      | 0.043   |

...MISSION
MISSION: THE CONDUCT OF OPERATIONAL TEST I.II.III. FOR NON-MAJOR AND MAJOR SYSTEMS AND OTHER TESTS AS DIRECTED BY HEADQUARTERS TRADOC.
SPECIFICALLY, THE AVIATION BUARD DESIGNS AND CONDUCTS TESTING AND EVALUATION OF AVIATION SYSTEMS AND SUBSYSTEMS AND ANCILLIARY EQUIPMENT.

...CURRENT IMPORTANT PROGRAMS
F0167 J-CATCH
OT391 AN/ALQ136 RADAR JAMMER
OT263A ADVANCED RADAR WARNING RECEIVER
OT468 DOPPLER NAVIGATION SUBSYSTEM-LIGHT WEIGHT
F0194 SHOCK PULSE ANALYZED DIAGNOSTIC EQUIPMENT

...FUNCTIONS/EQUIPMENT/CAPABILITIES
NO MAJOR EQUIPMENT OR FACILITY

and resident a section of the second section of the section of

CDR.COL. DENNIS M. BOYLE

|               | PROGRA         | M DATA BY HIS | CAL YEAR (MILLION: | \$ )         |
|---------------|----------------|---------------|--------------------|--------------|
| PROGRAM       |                | 1978          | 1979               |              |
|               |                | (ACTUAL)      | (ACY + FST)        |              |
| TOTAL ROTEE   |                | 4.349         | 3.927              |              |
| TOTAL PROCURE | MENT           | 0.000         | 0.000              |              |
| TOTAL OSM     |                | 0.000         | 0.000              |              |
| YOTAL OTHER   |                | 0.929         | 0.980              |              |
| TOTAL ANNUAL  | LAB            | 5.278         | 4.907              |              |
| TOTAL INHOUSE | •              | 5.278         | 4.907              |              |
| TOTAL INHOUSE | RDT&F          | 4.349         | 3.927              |              |
| ANNUAL OPERAT | TING COST      | 0.175         | 0.190              |              |
|               | PERSONNEL D    | ATA (END OF   | FY 1970)           |              |
| PERSONNEL     | AUTHORIZED     | TOTAL         | TOTAL              | NON-         |
|               | STRENGTH       | PHDS          | PROF               | PROF         |
| MILITARY      | 64             | 0             | 21                 | 43           |
| CIVILIAN      | 108            | 0             | 35                 | 73           |
| TOTAL         | 172            | 0             | 56                 | 116          |
|               | SPA            | CF AND PROPER | TY                 |              |
| ACRES         | SPACE (THOUSAN | DS OF SQUARE  | FEET) COST         | (MILLION \$) |
|               | LAB AD         | MIN OTHER     | TOTAL REAL P       | ROP EQUIP    |
| 19            | 9,200 16,      | 000 124,800   | 150,000 3,         | 632 7.417    |

...MISSION
PRODUCE ENGINEERING FLT TEST DATA ON ACFT PERFORMANCE, HANDLING QUALITIES
SYSTEM/SUBSYSTEM INTERFACE AND INTEGRATED SYSTEM RAM: SUSTAIN THE
CAPABILITY TO COMPLETELY INSTRUMENT TEST VEHICLES WITH ONBOARD MAGNETIC
TAPE AND COMPUTERIZED REAL TIME DATA REDUCTION. CONDUCT PRE-TPS ORIENT.

...CURRENT IMPORTANT PROGRAMS BLACKHAWK VALIDATION TEST UM-60A ICING TEST AGEC JCH-47C FIBERGLASS ICING TEST UM-1A KIT A ICING JAH-1S PNVS

...FUNCTIONS/EQUIPMENT/CAPABILITIES

1JT-28B 17-28B 10V-1C 1JOV-1C 1JAH-1S 2JCH-47C 1JOH-58C 5JUH-1H ACFT.

ACFT MAINT CAPABILITY

ACFT MODIFICATION CAPABILITY

EMR COMPUTER WITH TELEMETRY

HAINBORNE DATA AQUISITION SYSTEMS

3REMOYS GROUND STATIONS WITH COMPUTER AND TELEMETRY CAPABILITY

1MTLIKE, CAMERA

1FAIRCHILD FLT ANALYSER

1MAGNETIC TAPE COMPOSER SYSTEM

3MAGNETIC TAPE TYPEWRITERS 3MAGCARD TYPEWRITERS

and the second of the second o

INSTALLATION: AVIATION RESEARCH & YECHNOLOGY LABORATORIES MOFFETT FIELD, CA.

DIR.DR. RICHARD M. CARLSON

DEP.DIR.COL. JOHN B. FITCH

|           | PERSONNEL DATA | (FND OF FY | 1978) |      |
|-----------|----------------|------------|-------|------|
| PERSONNEL | AUTHORIZED     | TOTAL      | TOTAL | NON- |
|           | STRENGTH       | PHDS       | PROF  | PROF |
| MILITARY  | 26             | 1          | 13    | 13   |
| CIVILIAN  | 568            | 20         | 233   | 335  |
| TOTAL     | 594            | 30         | 246   | 348  |

|       |            | SPACE AN  | D PROPERTY |         |            |         |
|-------|------------|-----------|------------|---------|------------|---------|
| ACRES | SPACE (THO | USANDS OF | SQUARE FE  | ET )    | COST (MILL | ION \$1 |
|       | LAB        | ADMIN     | OTHER      | TOTAL   | REAL PROP  | EQUIP   |
| 127   | 88.848     | 58.673    | 16.370     | 163.891 | 1.431      | 4.211   |

## ...MISSION

MANAGES AND EXECUTES RED OF ARMY AIRMOBILE SYSTEMS, THROUGH DEMONSTRATION OF TECHNOLOGY. PROVIDES TECHNICAL SUPPORT TO PROJECT/PRODUCT MANAGERS & SYSTEM DEVELOPERS AS REQUIRED. PROVIDES INDEPENDENT TECHNICAL RISK ASSESSMENT TO CG USAAVRADCOM AND HIGHER AUTHORITY.

...CURRENT IMPORTANT PROGRAMS
RESEARCH IN FUNDAMENTAL ROTOR AERODYNAMICS.DYNAMICS & NOISE.
RESEARCH & DEVELOPMENT OF SMALL GAS TURBINES.
R&D TO IMPROVE RELIABILITY & MAINTAINABILITY OF AIRMOBILE SYSTEMS.
RSCH. COMPOSITES & MEASURE OPNL. FLT.LOADS TO IMPROVE STRUCTURES FOR A/C EVOLVE TECHNOLOGY & CRITERIA TO IMPROVE FLIGHT SAFFTY & SURVIVABILITY.

Sant land and the the tiled seems with the first of the first of the sant land and the

INSTALLATION: AVIONICS R & D ACTIVITY

FT.MONMOUTH.N.J.

CDR.COL.D. PETERSEN

DEPODIR.MR. T. SUETA

|                | PRO                | GRAM DATA B | Y FISCAL | L YEAR (MI | LLION \$1 |          |
|----------------|--------------------|-------------|----------|------------|-----------|----------|
| PROGRAM        |                    | 1978        |          | 1979       |           |          |
|                |                    | (ACTUAL     | )        | IACT + FST | )         |          |
| TOTAL RDTEE    |                    | 10.         | 756      | 10.3       | 91        |          |
| TOTAL PROCURE  | IEN Y              | 4.          | 866      | 4.6        | 44        |          |
| TOTAL DEM      |                    | 1.          | 537      | 1.8        | 11        |          |
| TOTAL OTHER    |                    | 0.          | 188      | 0.2        | 48        |          |
| TOTAL ANNUAL E | .AB                | 17.         | 347      | 17.0       | 94        |          |
| TOTAL INHOUSE  |                    | ٩.          | 408      | 9.9        | 58        |          |
| TOTAL INHOUSE  | RDT&F              | 5.          | 771      | 5.5        | 33        |          |
| ARMIAL OPERATI | ING COST           | 2•          | 742      | 3.2        | 27        |          |
|                | PERSONNE           | L DATA LEN  | D OF FY  | 1978!      |           |          |
| PERSONNEL      | <b>GBSI ROHTUA</b> | מד          | TAL      | TOTA       | L         | NON-     |
|                | STRENGTH           | P           | HDS      | PRO        |           | PROF     |
| MILITARY       | 12                 |             | 0        | 7          | •         | 5        |
| CIVILIAN       | 194                |             | 5        | 139        | 1         | 55       |
| TOTAL          | 206                |             | 5        | 146        | •         | 60       |
|                |                    | SPACE AND P | ROPERTY  |            |           |          |
| ACRES          | SPACE (THOU        | SANDS OF SQ | UARE FEI | ET)        | COST (MIL | LION \$) |
|                | LAB                | ADMIN       | OTHER    | TOTAL      | REAL PROP | EQUIP    |
| v              | 16.000             | 33.500      | 0.000    | 49.500     | 0.000     | 7.852    |

#### ...MISSION

RESPONSIBLE FOR THAT PORTION OF AVRADOOM'S MISSION WHICH PERTAINS TO AVIATION ELECTRONICS FROM RESEARCH THRU FIRST TIME PRODUCTION. THIS ENCOMPASSES BOTH GROUND AND AIRBORNE EQUIPMENT FOR COMMUNICATIONS NAVIGATION, INSTRUMENTATION, ENVIRONMENT, SENSING, LANDING AND AIR TRAFFIC MGT.

...CURRENT IMPORTANT PROGRAMS

ARMY DIGITAL AVIONICS SYSTEMS

INTEGRATED AVIONICS CONTROL SYSTEM, IACS

AVIATION NAP-OF-THE-EARTH COMMUNICATIONS

WIRE AND WIRE LIKE OBJECT DETECTION SYSTEM

VERY LIGHTWEIGHT AIR TRAFFIC MANAGEMENT EQUIPMENT

...FUNCTIONS/EQUIPMENT/CAPABILITIES
MA.NOR EQUIPMENT INCLUDES NIGHT NAVIGATION PILOTAGE SYSTEM.DIGITAL HOT
BENCH, SYMBOLOGY GENERATOR.WIRE DETECTION AND RECOGNITION SIMULATOR.
DIGITALLY ADDRESSABLE MULTI-LEGEND DISPLAY SWITCH.MICROPROCESSOR INTERFACE UNIT.AND A LARGE SCALF COMPUTER DYNAMIC SIMULATION OF A GLOBAL
POSITIONING SYSTEM/DOPPLER VELOCITY SENSOR HYBRID NAVIGATION SYSTEM.
FACILITIES INCLUDE: ACOUSTIC/AUDIO ANALYSIS FACILITY.TACTICAL AVIONICS
SYSTEM SIMULATOR.ENVIRONMENT VEHICLE FOR AVIONICS RESEARCH.SKC-2000 DATA
ACQUISITION SYSTEM.ANTENNA RANGE ELECTROMAGNETIC INTERFERENCE TEST
FACILITY.CAD-E FACILITY.MICROPROCESSOR DEVELOPMENT CENTER.DATA FORMATTING FACILITY AND AIR TRAFFIC MANAGEMENT SYSTEM DESIGN TEST CENTER

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INSTALLATION: BALLISTIC RESEARCH LABORATORY

ABERDEEN PROV.GR., MD

DIR.DR.ROBERT J. EXCHELBERGER DEP.DIR.COL.ROBERT M. GOMEZ

|                | PROGRA         | M DATA BY FISC | AL YEAR (MILLION | \$1          |
|----------------|----------------|----------------|------------------|--------------|
| PROGRAM        | •              | 1978           | 1979             | •            |
|                |                | (ACTUAL)       | (ACT + EST)      |              |
| TOTAL ROTEE    |                | 45.382         | 44,205           |              |
| TOTAL PROCUREM | ENT            | 0.134          | 0.000            |              |
| MEG JATOT      |                | 1.948          | 1.379            |              |
| TOTAL OTHER    |                | 1.729          | 1.813            |              |
| TOTAL ANNUAL L | AB             | 49.193         | 47.397           |              |
| TOTAL INHOUSE  |                | 30.635         | 29,897           |              |
| TOTAL INHOUSE  | RDTGE          | 28.230         | 27.705           |              |
| ANNUAL OPERATI | NG COST        | 10.509         | 11.469           |              |
|                | PERSONNEL D    | ATA (END OF F  | Y 1978)          |              |
| PERSONNEL      | AUTHORIZED     | TOTAL          | TOTAL            | NON-         |
|                | STRENGTH       | PHDS           | PROF             | PROF         |
| MILITARY       | 26             | 2              | 15               | 11           |
| CIVILIAN       | 5 <i>2</i> 4   | 102            | 372              | 152          |
| YOTAL          | 550            | 104            | 387              | 163          |
|                | SPA            | CE AND PROPERT |                  |              |
| ACRES          | SPACE ITHOUSAN | DS OF SQUARE F | EET) COST        | (MILLION \$) |
|                |                | MTN OTHER      |                  | PROP EQUIP   |
| 1920           | 539.702 11.    | 200 40.982     | 591.884 14.      | 595 26.598   |

#### ...MISSION

CONDUCT RESEARCH AND EXPL DEV IN SCIENCES/TECHNOLOGIES NECESSARY FOR CONCEIVING. DESIGNING, DEVELOPING AND EVALUATING WEAPON SYSTEMS PURSUE ORIENTED FUND RESEARCH IN PHYS. CHEM. MATH. ENGINEERING SUBJECTS INVESTIGATE PERTINENT BRANCHES OF MILITARY SCIENCES AND TECHNOLOGIES

...CURRENT IMPORTANT PROGRAMS
PROPULSION DYNAMICS OF HYPERVELOCITY AND CONVENTIONAL GUNS
EFFECTS OF CONVENTIONAL/NUCLEAR WARHEADS AND BALLISTIC PROTECTION
WARHEAD DYNAMICS, PENETRATION, FRAGMENTATION, EXPLOSIVE/METAL INTERACTIONS
FLIGHT DYNAMICS OF PROJECTILES AND MISSILES; ARTILLERY FIRING TABLES
VULNERABILITY ANALYSIS/VULNERABILITY REDUCTION ARMY MATERIEL, AIRCRAFT

...FUNCTIONS/EQUIPMENT/CAPABILITIES

EXPLOSIVE BLAST CHAMBERS, AERODYNAMIC RANGES, HIGH ALTITUDE BLAST SPHERE SHOCK TUBES TO SIMULATE NUCLEAR BLAST: MEASURE CHEMICAL REACTION RATES SOFT RECOVERY SYSTEM FUR ARTILLERY SHELLS, HIGH SPEED MOTION PHOTOGRAPHY SPARK PHOTOGRAPHY RANGES, X-RAY CINEPHOTOGRAPHY, FLASH HOLOGRAPHIC SYST FIELD TEST FACILITIES FOR PROJECTILE, EXPLOSIVE, AND ARMOR RESEARCH TESTS ANALOG COMPUTER FOR SYMULATION OF KINEMATICS OF SUNS AND RIFLES CENTRAL SITE COMPUTATIONAL FACILITY WITH 60 REMOTE INTERACTIVE TERM AND B REMOTE BATCH TERMINALS
PULSED FLOW CHEMICAL REACTOR SYSTEM

The second secon

ABERDEEN PRO.GR.,MD.

INSTALLATION: CHEMICAL SYSTEMS LABORATORY

CDR.COL. JOHN D. SPENCE

TECH-DIR-DR. BENJ L. HARRIS

| CDR.COL. JOHN | 0. SPENDS   |               | . VEAR INTELLION \$7 |
|---------------|-------------|---------------|----------------------|
| •             | PROGRAM     | DATA BY FISCA | L YEAR IMILLION \$7  |
|               |             | 17(0          |                      |
| PROGRAM       |             | ACTUAL)       | 53.091               |
| 11000         |             | 48.272        | 6.687                |
| TOTAL ROTGE   |             | 17.857        |                      |
| TOTAL PROCURE | MENT        | 6.400         | 11.500               |
| TOTAL PROCONS |             |               | 1.220                |
| TOTAL DEM     |             | 1.090         | 72.498               |
| TOTAL OTHER   |             | 73.619        | · <u>-</u> -         |
| TOTAL ANNUAL  | LAB         |               | 53.947               |
| 10110         |             | 45.235        | 2767T                |
| TOTAL INHOUSE | <b>.</b>    | 35.758        | 39.925               |
| TOTAL INHOUS  | ENTSE       | 7.200         | 7.800                |
| TOTAL INNOUS  | TZD SAFE    | 1.200         |                      |
| ANNUAL OPERA  | THE COU.    |               | rv 1978)             |
|               | PERSONNEL D | ATA LEND OF   | TOTAL                |
|               | bEK20Mer -  | TOTAL         | PROF                 |
| PERSONNEL     | AUTHORIZED  | PHD\$         | • •                  |
| PERSONNE      | STRENGTH    | 30            | 76                   |
|               |             |               | # 1 A                |

| ANNUAL OF THE        | PERSONNEL DATA             | TOTAL    | TOTAL      | NON<br>PROF |
|----------------------|----------------------------|----------|------------|-------------|
| PERSONNEL            | AUTHORIZED<br>STRENGTH     | PHD\$    | PROF<br>76 | 49<br>360   |
| MILITARY<br>CIVILIAN | 125<br>3 <b>7</b> 0<br>995 | 52<br>82 | 510<br>586 | 409         |
| TOTAL                |                            | SOBERTY  |            |             |

| DTAL  | SPACE A                         | NO PROPERTY | COST INILLIC | M \$1           |
|-------|---------------------------------|-------------|--------------|-----------------|
| ACRES | SPACE (THOUSANDS D<br>LAB ADMIN | OTHER TOT   | LL REAL PROP | EQUIP<br>17.000 |
| 1750  | 435.000 235.000                 | ,           |              |                 |

CLASS II ACTIVITY CONDUCTING A RESEARCH & DEVELOPMENT MISSION FOR ARMY CHEMICAL MUNITIONS & DEFENSIVE ITEMS. INCLUDES BASIC RESEARCH AND GENERAL INVESTIGATIONS AS WELL AS EXPLORATORY, ADVANCED AND ENGINEERING DEVELOPMENT OF MATERIAL.

...CURRENT IMPORTANT PROGRAMS
DEVELOP SMOKE/AEROSOL MUN FOR SCREEN
BIOLOGICAL & CHEMICAL AGENT ALARM DEVELOPMENT
NEW PROTECTIVE MASK DEVELOPMENT: CMEMICAL DECONTAMINATION PROGRAM
BINARY LETHAL CHEMICAL AGENT PROJECTILE DEVELOPMENT
THERAPEUTIC & PROPHYLACTIC MEDICAL DEFENSE AGAINST CHEM WARFARE AGENTS

\*\*.\*FUNCTIONS/EQUIPMENT/CAPABILITIES
MAJOR EQUIP IS CONTAINED IN A COMPLEX OF ENGR/LAB AREAS. INCLUDES CMI.
PILOT PLANTS, MUN FILL, ENGR DESIGN, EXPER FAB SHOPS, AEROSOL DISSEM
TEST CHAMBERS, PYRO TECH MIX LOAD HANDLING FAC, INDOOR BALLISTIC RANGE,
SUBSONIC-SUPERSONIC, TRANSONIC WIND TUNNEL. A COMPLETE CLINICAL RESEARCH
FACILITY, AN ANIMAL BREEDING — HOLDING FACILITY.

The first of the second of the

INSTALLATION: COLD REGIONS RGE LABORATORY

HANOVER . N. H.

CDR.LTC.A.B.DEVEREAUX, JR.

TECH.DIR.DR.D.R. FREITAG

|                       | PROGRAM DATA BY FISCAL YEAR | R (MILLION \$) |
|-----------------------|-----------------------------|----------------|
| PROGRAM               | 1978                        | 1979           |
|                       | (ACTUAL) (ACT               | e EST)         |
| TOTAL ROTEF           | 5.022                       | 5.096          |
| TOTAL PROCUREMENT     | 0.000                       | 0.000          |
| TOTAL DEM             | 0.164                       | 0.120          |
| TOTAL OTHER           | 2.473                       | 2.908          |
| TOTAL ANNUAL LAB      | 7.659                       | R-124          |
| TOTAL INHOUSE         | 5.763                       | 6.139          |
| TOTAL INHOUSE ROTEE   | 3.545                       | 3.615          |
| ANNUAL OPERATING COST | 2.235                       | 2.400          |

|           | PERSONNEL DATA | - (END DE E | Y 1978) |      |
|-----------|----------------|-------------|---------|------|
| PERSONNEL | AUTHORIZED     | TOTAL       | TOTAL   | NON- |
|           | STRENGTH       | PHDS        | PROF    | PROF |
| MILITARY  | 14             | 1           | 5       | Q    |
| CIVILIAN  | 263            | 31          | 128     | 135  |
| TOTAL     | 277            | 32          | 133     | 144  |

| SPACE AND PROPERTY |            |          |           |         |            |         |  |
|--------------------|------------|----------|-----------|---------|------------|---------|--|
| ACRES              | SPACE (THO | SANDS OF | SQUARE FF | FT)     | COST (MILL | ION \$) |  |
|                    | LAB        | NI MGA   | OTHER     | TOTAL   | REAL PROP  | FQUXP   |  |
| 24                 | 80.786     | 30.027   | 128.544   | 239.357 | 7.894      | 6.959   |  |

#### ...MISSION

AS THE ARMY LABORATORY FOR SCIENCE AND TECHNOLOGY IN COLD REGIONS. USACRREL CONDUCTS AND COORDINATES RESEARCH APPLICABLE TO THE ARMYS NEEDS IN THOSE GEOGRAPHIC AREAS OF THE WORLD WHERE WINTER WEATHER AND COLD REPRESENTS A SEVERE PROBLEM.

...CURRENT IMPORTANT PROGRAMS
DESIGN, CONSTRUCTION, AND OPERATIONS TECHNOLOGY FOR COLD REGIONS
RESEARCH IN SNOW, ICE, AND FROZEN GROUND
ICE ENGINEERING
LAND TREATMENT OF WASTEWATER
MOBILITY AND ENVIRONMENTAL RESEARCH

...FUNCTIONS/EQUIPMENT/CAPABILITIES

THE MAIN LABORATORY AT USACRREL CONTAINS 24 COLD LARS WHICH CAN BE OPERATED TO -58 F, SPECIAL TESTING APPARATUS FOR FROZEN MATERIALS, AN ICE ENGINEERING FACILITY FOR LARGE MODELING EXPERIMENTS WITH ICE, A CHEMISTRY LAB, AN ELECTRON MICROSCOPE LAB, A SOILS PROCESSING LAB, A PAVEMENT TEST FACILITY FOR TESTING UNDER FREEZING/THAWING CONDITIONS, A WASTEWATER TREATMENT RESEARCH FACILITY, A COMPUTER FACILITY, A MASS SPECTROMETER, A GAS CHROMATOGRAFH, AND A SMALL LASER FACILITY. THE ALASKA PROJECTS OFFICE AT FAIRBANKS CONDUCTS RESEARCH AND PROVIDES

LOGISTIC SUPPORT FOR OTHER RESEARCH. USACRREL'S MILITARY AND CIVILIAN PERSONNEL HAVE EXPERTISE COVERING A WIDE RANGE OF SCIENTIFIC AND ENGINEERING DISCIPLINES RELATED TO COLD REGIONS RESEARCH.

INSTALLATION: COLD REGIONS TEST CENTER

APO SEATTLE.WA.

CDR.CDL. JAMES F. HENRIONNET TECH.ADV.MR. HILLIAM J. HASLE

|                       | PROGRAM DATA BY FISCAL | YEAR (MILLION \$) |
|-----------------------|------------------------|-------------------|
| PROGRAM               | 1978                   | 1979              |
|                       | (ACTUAL) (/            | ACT + FST)        |
| TOTAL ROTEE           | 4.118                  | 4.045             |
| TOTAL PROCUREMENT     | 0.048                  | 0.033             |
| TOTAL DEM             | 9.017                  | 0.017             |
| TOTAL OTHER           | 4.033                  | 4.195             |
| TOTAL ANNUAL LAB      | 8.216                  | 8.290             |
| TOTAL INHOUSE         | 8.216                  | 8.290             |
| TOTAL INHOUSE ROTEF   | 4.118                  | 4.045             |
| ANNUAL OPERATING COST | 3.275                  | 3.496             |

|           | PERSONNEL DATA | (FND OF FY | Y 1978) |      |
|-----------|----------------|------------|---------|------|
| PERSONNEL | AUTHORIZED     | TOTAL      | TOTAL   | NON- |
|           | STR FNGTH      | PHDS       | PROF    | PROF |
| MILITARY  | 282            | 0          | 95      | 187  |
| CIVILIAN  | 22             | 0          | 5       | 17   |
| TOTAL     | 304            | 0          | 100     | 204  |

|        |            | SPACE AND  | PROPERTY   |         |            |         |
|--------|------------|------------|------------|---------|------------|---------|
| ACRES  | SPACE (THO | SUSANDS OF | SQUARE FEE | T)      | COST (MILL | ION \$7 |
|        | LAB        | ADMIN      | OTHER      | TOTAL   | REAL PROP  | FQUIP   |
| 647155 | 2.715      | 20.457     | 268.622    | 291.794 | 12.196     | 5.762   |

# ...MISSION

PLAN CONDUCT EVALUATE REPORT ON ENVIRONMENTAL PHASE OF DEVELOPMENT TESTS EMPLOY INTEGRATED TESTING POLICYS DVRING DEVELOPMENT TESTING PROVIDE TECH INFO ADVICE GUIDANCE ON TESTS TO GOVT AGENCIES AND INDUSTRY CONDUCT OTHER TESTS AND EVALUATIONS AS DIRECTED BY CG TECOM

...CURRENT IMPORTANT PROGRAMS
GROUND LASER LOCATOR DESIGNATOR/CANNON LAUNCHED GUIDED PROJECTILE(GLLD)
GROUND EMPLACED MINE SCATTERING SYSTEM (GEMSS)
SURFACE LAUNCHED UNIT FUEL AIR EXPLOSIVE (SLUFAE)
ROLAND IT

L1 6A2 81 MM MORTAR UNITED KINGDOM

\*\*\*FUNCTIONS/EQUIPMENT/CAPABILITIES

FACILITY CAN ACCOMODATE A WIDE VARIETY AND LARGE NO OF TESTS AT ANY ONE
TIME.SEVERAL VEH TST COVRSGS AND EXTENSIVE CROSS COUNTRY TERRAIN RANGES
ARE VERSATILE 500 THOUS ACRE ISOLATED IMPACT AREA, 50KM MAX UNOBSERVED
RANGE.LARGE RESTRICTED AIRSPACE AREA WITH UNRESTRICTED FIRING TO 5000 FT
ORDINATE. COORDINATION WITH FAA CAN EFFECT UNRESTRICTED ORDINATE.1ST 2ND
OR 3RD ORDER SURVEY POINTS. GOOD SECONDARY ROADS. PHONE/NON-TAC RADIO AT
ALL RANGES AND TEST SITES. AUTODIN, FASCIMILE TELETYPE, PHOTOLAR AND MAINT
FOR MAJORITY OF EQUIP INCL ACFT DS/GS CALIBRATION SVCS. LIMITED ENGINER
SUPPORT UHIA ACFT.AF SPT CAN BE ARRANGED.MET TEAM SUPPORT
AVAILABLE. INST FOR MOST ITEMS ON HAND, CAN OBTAIN OTHER INSTRUMENTS.
MUVING TARGET SYSTEM, REMOTE SARTS TARGET SYSTEM, E.O.D, STATISTICAL AND
MAINTENANCE EVALUATION CAPABILITIES AVAILABLE. ADEQUATE COMPUTER FACIL.

INSTALLATION: COMBAT SURVEILLANCE & TGT ACQUISITION LAB FT. MONMOUTH, N.J.

#### CDR.COL.WINSTON K. EVANS

|               | PRO        | DGRAM DATA  | BY FISCA | AL YEAR (M) | (LL'IO! | 4 \$)  |          |
|---------------|------------|-------------|----------|-------------|---------|--------|----------|
| PROGRAM       |            | 197         | 78       | 1979        |         |        |          |
|               |            | (ACTUA      | iL)      | (ACT + EST  | Γ)      |        |          |
| TOTAL ROTEE   |            | 15          | 5.077    | 7.4         | 943     |        |          |
| TOTAL PROCURI | EMENT      | 52          | 2.977    | 20.         | 737     |        |          |
| TOTAL DEM     |            | O           | .763     | 0.0         | 27      |        |          |
| TOTAL OTHER   |            | C           | 0.000    | 0.0         | 000     |        |          |
| YOTAL ANNUAL  | LAB        | 68          | 8.817    | 28.         | 707     |        |          |
| TOTAL INHOUSE |            | 7           | 7.882    | 3.          | 781     |        |          |
| INHOUSE       | ROTEF      | 4           | .098     | 2.9         | 961     |        |          |
| ANNUAL OPERAT | TING COST  | 2           | 2.357    | 2.0         | 378     |        |          |
|               | PERSONNI   | L DATA (F   | ND OF FY | r 1978)     |         |        |          |
| PERSONNEL     | AUTHORIZED | 7           | TOTAL    | TOTA        | AL.     |        | NON-     |
|               | STRENGTH   |             | PHDS     | PRO         | )F      |        | PROF     |
| MILITARY      | 10         |             | 0        | •           | •       |        | 1        |
| CIVILIAN      | 172        |             | 2        | 130         | )       |        | 42       |
| TOTAL         | 182        |             | 2        | 139         | 9       |        | 43       |
|               |            | SPACE AND   | PROPERTY | •           |         |        |          |
| ACRES         | SPACE (THO | JSANDS OF S | QUARE FE | FFT)        | cas:    | T (MIL | LION \$) |
|               | LAB        | ADMIN       |          | TOTAL       |         | PROP   | EQUIP    |
| 227           | 88.475     | 6.129       | 12.569   | 107.183     |         | 4.266  | 17.115   |

#### ...MISŠION

CONDUCT ALL PHASES OF R+D INCL INITIAL PRODUCTION IN THE FOLLOWING TECHD LOGIES— IDENT FRIEND FOE NEUTRAL; DATA TRANSMISSION + PROCESSING; NUCLEAR RADIATION DETECTION + MEASUREMENT; RADAR; ACOUSTIC WEAPONS LOCATION; PEMOTE SENSING; PHOTOGRAPHY; AND IMAGERY INTERPERTATION.

### ... CURRENT IMPORTANT PROGRAMS

PROCUREMENT OF MOBILE GROUND IMAGERY INTERPERTATION CENTER ABV MAGIC ADVANCED DEV OF BATTLEFIELD SURV + TARGET ACQUISITION RADAR ABV BSTAR ADVANCED DEV OF NUCLEAR BURST DETECTION SYSTEM ABV NBDS ADVANCED DEV OF BATTLEFIELD IDENT FRIEND OR FOE ABV BIFF EXPLORATIONY DEV OF VARIOUS CS+TA SENSORS

#### ...FUNCTIONS/EQUIPMENT/CAPABILITIES

PHOTO PROCESSING, OPTICAL TEST LENS RESOLUTION TEST PATTERN FACILITIES, INCLUDING DARK ROOMS, CHEM LABS, RADAR TECHNIQUES DEVELOPMENT FACILITIES, INCLUDING MICROWAVE DARK ROOM, ANTENNA PATTERN + TEST RANGE, 65 FOOT R ADAR TEST PLATFORM. OUTDOOR AND INDOOR RANGES INSTRUMENTED FROM 30 MHZ TO 70 GHZ. MOBILE SPECTRAL AND TIME DISTRIBUTION MEASUREMENT FACILITIES. RADAR INSTRUMENTATION FACILITY CAPABLE OF TRACKING X-BAND RADAR AND COLL ECTING AND RECORDING POSITION, VELOCITY, AND SIGNAL STRENGTH, INCLUDING A SHORT RANGE SEARCH CAPABILITY.

FINDING, DESIGNATING, AND TRACKING SYSTEMS. RADAR INSTRUMENTATION FAC CAPABLE OF TRACKING X-BAND RADAR AND COLLECTING AND RECORDING POSITION, VELOCITY, AND SIGNAL STRENGTH, INCLUDING A SHORT RANGE SEARCH CAPABILITY. INSTALLATION: COMMUNICATIONS - ELECTRONICS BOARD

FT.GORDON.GA.

PRES. COL. DONALD F. POE

FNGR.ADV.MR.JAMES H. LYLE

|              | PROGRAM   | DATA BY F | ISCAL YEAR | (MILLION \$ | ) |
|--------------|-----------|-----------|------------|-------------|---|
| PROGRAM      |           | 1978      | 19         | 79          |   |
|              |           | (ACTUAL)  | (ACT +     | EST)        |   |
| TOTAL ROTRE  |           | 0.346     |            | 1.260       |   |
| TOTAL PROCUR | FMENT     | 0.000     | •          | 0.000       |   |
| TOTAL DEM    |           | 0.000     |            | 0.019       |   |
| YOTAL OTHER  |           | 0.042     |            | 1.234       |   |
| TOTAL ANNUAL | LAB       | 886.0     |            | 2.513       |   |
| TOTAL INHOUS | E         | 0.388     |            | 2.513       |   |
| TOTAL INHOUS | E RDT&F   | 0.346     |            | 1.260       |   |
| ANNUAL OPERA | TING COST | 0.077     | •          | 0.472       |   |

|           | PERSONNEL DATA | (END OF FY | 1978) |      |
|-----------|----------------|------------|-------|------|
| PERSONNEL | AUTHORIZED     | TOTAL      | TOTAL | NON- |
|           | STRENGTH       | PHDJ       | PROF  | PROF |
| MILITARY  | 62             | 0          | 28    | 34   |
| CIVILIAN  | 31             | 0          | 3     | 28   |
| TOTAL     | 93             | 0          | 31    | 62   |

|       |            | SPACE AND | PROPERTY   |        |            |         |
|-------|------------|-----------|------------|--------|------------|---------|
| ACRES | SPACE (THO | USANDS OF | SQUARE FEE | FT)    | COST (MILL | ION \$) |
|       | LAB        | ADMIN     | OTHER      | TOTAL  | REAL PROP  | EQUIP   |
| 7     | 0.000      | 18.960    | 3.663      | 22.623 | 0.123      | 0.000   |

PLANS, CONDUCTS AND REPORTS ON OPERATIONAL TESTS OF I, II, AND III OF C-E SYSTEMS AND FORCE DEVELOPMENT TESTING AND EXPERIMENTATION AS PUBLISHED IN THE DA FIVE YEAR TEST PROGRAM. CONDUCTS CONCEPT EVALUATION PLANS AND OTHER USER-RELATED/CUSTOMER TEST DIRECTED BY TRADOC

...CURRENT IMPORTANT PROGRAMS
TACTICAL RECORD TRAFFIC TERMINAL AN/UGC-74 V 4 9-01N-601
ARMY DATA DISTRIBUTION SYSTEM/PACKET RADIO EXPERIMENT CEP 8076
SHE GME SATELLITE COMMUNICATIONS SYSTEM AN/TSC-85 V 2 AN/TSC-93 901N-376
TRANSMISSION SYSTEM TEST 9-F0-183
JOINT SERVICES INTERIOR INTRUSION DETECTION SYSTEM OT II 9-01N-487

...FUNCTIONS/EQUIPMENT/CAPABILITIES SINCE THIS IS A NEWLY ORGANIZED ACTIVITY AND EQUIPMENT IS NOT AVAILABLE, NO STATEMENT CAN BE PROVIDED AT THIS TIME.

FT MONMOUTH, N.J.

#### INSTALLATION: COMMUNICATIONS R & D COMMAND

CDR.MG.HILLMAN DICKINSON

TECH.DIR.MR.THEODORE PFEIFFER

|             | PROG         | RAM DAYA BY FIS | SCAL YEAR (MILLION | <b>4 8)</b>    |
|-------------|--------------|-----------------|--------------------|----------------|
| PROGRAM     | •            | 1978            | 1979               |                |
|             |              | (ACTUAL)        | (ACT + EST)        |                |
| TOTAL ROTES | •            | 35.205          | 39.043             |                |
| TOTAL PROCE | REMENT       | 2.512           | 5.188              |                |
| TOTAL DEM   |              | 3.126           | 2.178              |                |
| TOTAL OTHER | <b>{</b>     | 0.186           | 0.000              |                |
| TOTAL ANNUA | AL LAB       | 41.029          | 46.409             |                |
| TOTAL INHOL | JSE          | 7.119           | 7.208              |                |
| TOTAL INHOU | ISE RDTGE    | 6.494           | 6.749              |                |
| ANNUAL OPER | RATING COST  | 3.600           | 1.520              |                |
|             | PERSONNEL    | DATA (END OF    | FY 1978)           |                |
| PERSONNEL   | AUTHORIZED   | TOTAL           | TOTAL              | NCIN-          |
|             | STRENGTH     | PHDS            | PROF               | PROF           |
| MILITARY    | 10           | ^               | 3                  | 7              |
| CIVILIAN    | 353          | 10              | 234                | 119            |
| TOTAL       | 363          | 10              | 237                | 126            |
|             | S            | PACE AND PROPE  | RTY                |                |
| ACRES       | SPACE (THOUS | ANDS OF SQUARE  | FEFT) COST         | T (MILLION \$) |
| -           |              | ADMIN OTHE      |                    | PROP EQUIP     |
| 0           | 69.943       | 4.291 0.00      | 0 74.234           | 0.000 10.800   |

...MISSION
CONDUCT RED RELATED TO COMMUNICATIONS EQUIPMENTS & SYSTEMS, INCLUDING FIE
LDS OF RADIO, TELEPHONIC, FACSIMILE AND DATA COMM, COMSEC AND COMM PROC
CONDUCTEDIRECT TECH BASE RED PROGRAMS IN TACTICAL ADP SYSTEMS AND COMPUT
ER SCIENCES. DEVELOP MULTI-APPLICATION TACTICAL ADP HARDWARE & SOFTWARE.

...CURRENT IMPORTANT PROGRAMS FIBER OPTICS ARMY DATA DISTRIBUTION SYSTEM DIGITAL GROUP MULTIPLEXER MILITARY COMPUTER FAMILY INTELLIGENCE TERMINAL FAMILY

\*\*\*FUNCTIONS/EQUIPMENT/CAPABILITIES
TELEPRICESSING DESIGN CENTER IS LAR EXPERIMENTAL FACILITY THAT SUPPORTS
EXPERIMENTS WHICH ALLOW OPTIMUM DEVELOPMENT AND VALIDATION OF ARMY AND
JOINT SERVICES TACTICAL DATA SYSTEMS CONFIGURATIONS. TOC HAS EMULATIONS
OF ARTADS TACFIRE BATTALION SYSTEM, TOS, & TACFIRE-TOS AN/TSQ73 SUPPORT
SOFTWARE SYSTEM. TOC HAS DEVELOPED EMULATIONS OF THE AN/UYK-15 AND AN/UYK
-19 COMPUTERS IN SUPPORT OF FIREFINDER AND ATE DEVELOPMENT PROGRAM.
THE COMMO SYSTEMS DESIGN CENTER (CSDC) IS AN INTEGRATED FACILITY CAFABLE
OF INTER-OP, HARDWARE & SOFTWARE, VALIDATION AND VERIFICATION, & POST
DEPLOYMENT SOFTWARE SUPPORT OF COMMO SYSTEMS FROM A SYSTEM VIEWPOINT.
INCLUDED IN CSDC ARE THE AN/TTC-38 CKT SWITCH, THE AN/MYQ-2 TADS
MESSAGE SWITCH, WITH APPLICABLE TERMINALS, TRANSMISSION MEDIA, MODEMS, AND
SUPPORTING PERSONNEL.

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INSTALLATION: CONSTRUCTION ENGINEERING RESEARCH LAB

CHAMPAIGN.TL.

CDR.COL. J.E. HAYS

TECH.DIR.DR. L.R. SHAFFER

|               | PR         | DGRAM DAT | A BY FISC | AL YEAR (M) | (LLION \$) |          |
|---------------|------------|-----------|-----------|-------------|------------|----------|
| PROGRAM       |            | 1         | 978       | 1979        |            |          |
|               |            | CACT      | UAL)      | IACT + FST  | r)         |          |
| TOTAL ROTEE   |            |           | 6.040     | 6.9         | 945        |          |
| TOTAL PROCURE | MENT       |           | 0.000     | 0.0         | 000        |          |
| TOTAL DAM     |            |           | 1.232     | 1.4         | 116        |          |
| TOTAL OTHER   |            |           | 1.893     | 2.1         | 176        |          |
| TOTAL ANNUAL  | LAB        |           | 9.165     | 10.5        | 537        |          |
| TOTAL INHOUSE |            |           | 7.553     | 8.6         | 584        |          |
| TOTAL INHOUSE | RDT&F      |           | 5.505     | 6.3         | 330        |          |
| ANNUAL OPERAT | ING COST   |           | 1.386     | 1.5         | 593        |          |
|               | PERSONN    | EL DATA   | (END OF F | Y 1978)     |            |          |
| PERSONNEL     | AUTHORIZED |           | TOTAL     | TOT         | <b>AL</b>  | NON      |
|               | STRENGTH   |           | PHOS      | PRO         | )F         | PROF     |
| MILITARY      | 3          |           | 0         | 3           | 8          | 0        |
| CIVILIAN      | 204        |           | 30        | 120         | 3          | 76       |
| TOTAL         | 207        |           | 30        | 131         | l          | 76       |
|               |            | SPACE AN  | D PROPERT | Y           |            |          |
| ACRES         | SPACE ITHO | USANDS OF | SQUARE F  | FFT)        | COST (MIL  | LION \$) |
|               | LAB        | ADMIN     |           | TOTAL       |            | FOULP    |
| 30            | 76.081     | 34.159    | 0.000     | 110-240     | 3.896      | 4.067    |

# ...MISSION

PLAN, EXECUTE, AND EVALUATE RESEARCH TO OBTAIN THE BEST COMBINATION OF ENGINEERING, DESIGN, CONSTRUCTION, OPERATION & MAYNTENANCE TO PROVIDE FACILITIES FOR THE MILITARY ESTABLISHMENT AND OTHER AGENCIES AT LEAST COST AND TO DISSEMINATE THE RESEARCH RESULTS.

... CURRENT IMPORTANT PROGRAMS MATERIALS RESEARCH AND DEVELOPMENT FOR MILITARY CONSTRUCTION ENVIRONMENT QUALITY FOR CONSTRUCTION & OPERATION OF MILITARY FACILITIES DEVELOPMENT OF INDUSTRIALIZED CONSTRUCTION FOR MILITIRY FACILITYES DEVELOPMENT OF AUTOMATED PROCEDURES FOR MILITARY CONSTRUCTION ARCHITECTURAL RESEARCH AND DEVELOPMENT FOR MILITARY FACILITIES

... FUNCTIONS/FQUIPHENT/CAPABILITIES

CONTROLLED ENVIRONMENT CHAMBER, ONE MILLION POUND CLOSED LOOP MATERIALS TEST SYSTEM, SCANNING ELECTRON MICROSCOPE, 5MW RESISTANCE LOAD BANK AND INSTRUMENTATION, X-RAY EQUIPMENT, SEMI-AUTOMATIC WELDING FQUIPMENT, BIAXIAL SHOCK TEST MACHINE, NON-DESTRUCTIVE TESTING FACILITY, VACUUM INDUCTION FURNACES, METALLOGRAPHIC SAMPLE PREPARATION AND RESEARCH METALLOGRAPH X-RAY DIFFRACTION AND VACUUM SPECTROSCOPY SYSTEM, DYNAMIC TENSION ANALYSIS SYSTEM, DIGITAL RECORDING ANALYSIS FOUIPMENT FACILITIES CAPABILITIES INCLUDE SYSTEMS BUILDING METHODS AND TECHNIQUES. COMPUTER BASED DESIGN AND CONSTRUCTION MANAGEMENT TECHNIQUES, HARDENED FACILITIES ANALYSIS, ENVIRONMENTAL QUALITY MANAGEMENT, POLLUTION CONTROL AND ABATEMENT, MILITARY HOUSING SYSTEMS, POWER GENERATION SYSTEMS, UTILITIES SYSTEMS ANALYSIS AND EVALUATION. AND ARCHITECTURAL RESFARCH.

and the sales of t

INSTALLATION: DUGWAY PROVING GROUND

DUGWAY.UT.

CDR.COL. JAMES R. KLUGH

SCI.DIR.DR. MORTIMER A. ROTHENBERG

| ****                  | PROGRAM DATA BY FISC | CAL YEAR (MILLION S) |
|-----------------------|----------------------|----------------------|
| PROGRAM               | 1978                 | 1979                 |
| West A. Common or     | (ACTUAL)             | (ACT + EST)          |
| TOTAL ROTGE           | 18.082               | 16.548               |
| TOTAL PROCUREMENT     | 0.465                | 0.047                |
| TOTAL DEM             | 2.347                | 1.953                |
| TOTAL OTHER           | 3.989                | 4.335                |
| TOTAL ANNUAL LAB      | 24.883               | 22.883               |
| TOTAL INHOUSE         | 23.197               | 21.782               |
| TOTAL INHOUSE ROTGE   | 17.528               | 15.971               |
| ANNUAL OPERATING COST | 8.802                | 9.525                |
| m m m .m.             | MARK. M. A           |                      |

| 55 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | PERSONNEL DATA | (FND OF FY | 1978) |      |
|----------------------------------------|----------------|------------|-------|------|
| PERSONNEL                              | AUTHORIZED     | TOTAL      | TOTAL | NON- |
| 44 B A M B A                           | STRENGTH       | PHDS       | PROF  | PROF |
| MILITARY                               | 163            | 1          | 13    | 150  |
| CIVILIAN                               | 636            | 15         | 74    | 562  |
| TOTAL                                  | 799            | 16         | 87    | 712  |

| ACRES  | SPACE (TH |         | ND PROPERT'<br>F SQUARE F |          | COST (MIL | 704 44 |
|--------|-----------|---------|---------------------------|----------|-----------|--------|
| 800771 | LAB       | ADM IN  | OTHER                     | TOTAL    | REAL PROP | EQUIP  |
| 802731 | 90.728    | 391.558 | 1680.346                  | 1962.632 | 79.999    | 28.762 |

## ...MISSION

DPG PLANS & CONDUCTS APPROVED TESTS TO ASSESS THE MILITARY VALUE OF CML MEAPONS. SMOKE/OBSCURANTS & CML-BIO DFF SYS. TESTS SPT R&D & PROVIDE BASIS FOR DEVELOPMENT OF NEW OPERATIONAL & LOGISTICAL CONCEPTS FOR EMPLOYMENT OF TESTED SYS. TESTS ARE RESPONSIVE TO USER REQUIREMENTS.

# ---CURRENT IMPORTANT PROGRAMS CONDUCTS SERVICE DEV CML CML-BIO DEFENSE SMOKE/OBSCURANT TEST PROGRAMS CONDUCTS R & D & LAB INVESTIGATIONS NECESSARY TO SUPPORT MISSION CONDUCTS JT OP CML & CML-BIO DEFENSE TESTS/STUDIES FOR CINCS, SERVICES CONDUCTS PROG TO SUP ARMY POLL ABATEMENT HAZARD EVAL & DEMIL OPNS CONDUCTS ECOLOGICAL EPIDEMIOLOGICAL & TOXICOLOGICAL SURVL OF DPG AREA

\*\*\*FUNCTIONS/EQUIPMENT/CAPABILITIES
INST GRIDS FOR CML CML-BIO TESTS:ARTY RG FOR CONVL & CML METAL PARTS,
BALLISTIC & DISSEM TESTS:WITH FIFLD SMPL, SMPL MASS ANAL, MET(AUTO DATA
ACQ & MESOMET METHK)SYS. TSPI(RADAR SLAVE PHOTO)SYS;PHYS & ENVIRON TEST
FAC(MIL SPEC 810) CHAMBERS FOR TOTAL AGENT CONTAINMNT; EXPLO SHIFLDING
PROPAGATION & OVERPRESSURE MEASMNTS,OPNS SPTD BY MET RSCH ON BEHAVIOR
OF CLOUDS; CML, LIFE SCI TECHN, ECOL SURVL OF DPG; TAPBL FOR PLANNING
ANAL,EVAL OF TESTS,OPNS RSCH;LABS EQUIPD FOR WIDE ING OF CML,MICROBIOL,
TOXICOL, IMMUNDL,ECOL,EPIDEMIO,POLL CNTL STUDIES; CAPBL FOR PROD BIO
SIMUL AG; TECHN & MASS ASSAY OF FLUORESCENT AIR TRACERS; EXTENSY COMM
& RG SAFETY SYS. OUTSTANDING ARE LARGE LAND AREA,RESTRICTED AIR SPACE,
LONG & FLAY APTY RANGES, PROJECTILE RECOVERY, SONIC & FLECTROMAG
STERILITY, DIVERSE SKILLS.

INSTALLATION: ELECTRONIC PROVING GROUND

FT.HUACHUCHA.AR.

CDR.COL. WILLIAM C. PETTY

CH.SCI.MR.GRADY H. BANISTER.JR

|                       | PROGRAM DATA BY FISCA |             |
|-----------------------|-----------------------|-------------|
| PROGRAM               | 1978                  | 1979        |
|                       | (ACTUAL)              | (ACT + FST) |
| TOTAL ROTEE           | 7.868                 | 8.396       |
| TOTAL PROCUREMENT     | 1.316                 | 1.406       |
| TOTAL DEM             | 1.412                 | 1.508       |
| TOTAL OTHER           | 7.006                 | 10.301      |
| TOTAL ANNUAL LAB      | 17.602                | 21.611      |
| TOTAL INHOUSE         | 15.465                | 19.315      |
| TOTAL INHOUSE ROTEE   | 6.475                 | 6.913       |
| ANNUAL OPERATING COST | 7.613                 | 8.111       |

|           | PERSUNNEL DATA | LEND OF FY | 1978) |      |
|-----------|----------------|------------|-------|------|
| PERSONNEL | AUTHORIZED     | TOTAL      | TOTAL | NON- |
|           | STRENGTH       | PHOS       | PROF  | PROF |
| MILITARY  | 545            | 0          | 50    | 495  |
| CIVILIAN  | 213            | 2          | 82    | 131  |
| TOTAL     | 758            | 2          | 132   | 626  |

| ACRES | SPACE (THE   |                 | D PROPERTY<br>SQUARE FE |                   | COST (NILL         | ION \$) |
|-------|--------------|-----------------|-------------------------|-------------------|--------------------|---------|
| 59573 | LAB<br>0,000 | ADMIN<br>50.300 | OTHER<br>169.500        | 70 TAL<br>219.800 | REAL PROP<br>2.350 | FQUXP   |

...MISSION

PLAN.CDT.EVAL.REPT RESULTS OF DEV AND DEV-TYPE TESTS IAW INTERD TESTING CYCLE PLCY FOR COMM-ELCT AND OPT/ELECTRO-OPT EQUIP AND SYS.TEMPEST AND OTHER MAT. OP EMETE, ECM VULNERABILITY TEST FAC.AND STE.DEV/MAINT MASTER PLAN FOR DEV AND MODERNIZATION OF TEST INSTR. TEST FAC.TEST METHODOLOGY.

...CURRENT IMPORTANT PROGRAMS
COUNTER HORTAR RADAR
TRI-TAC MESSAGE SWITCH
GLOBAL POSITIONING SYSTEM
SINGLE CHANNEL GROUND TO AIR RADIO SYSTEM
AIR-GROUND TACTICAL EMITTER LOCATION SYSTEM

...FUNCTIONS/EQUIPMENT/CAPABILITIES

COMD USAFLET PG. CONDUCT DEV AND DEV-TYPE TESTS IAW INTERD TESTING CYCLE
FOR FOL TYPES MATERIEL, COMM-ELCT AND OPTICAL/ELECTRO-OPT EQUIP AND SYS,
TEMPEST, AND OTHER MATERIEL AS DIRECTED. MAINT CAPABILITY FOR FLECTROMAGNETIC COMPATIBILITY AND ELECTRONIC COUNTERMEASURES TEST ANALYSES.
OPERATE AND MAINTAIN THE INSTRUMENTATION AND FACILITIES TO PROVIDE
NECESSARY CAPABILITY. MAINTAIN CAPABILITY FOR CONDUCT OF TEMPEST TESTS
AND ANALYSES DURING RESEARCH, DEVELOPMENT, TESTS AND EVALUATION CYCLES.
CONDUCT OR PARTICIPATE IN FIELD RESEARCH AND RELATED STUDIES FOR DOD
AGENCIES AS DIRECTED. DEVELOP AND MAINTAIN MASTER PLAN FOR THE DEVFLOPMENT AND MODERNIZATION OF TEST INSTRUMENTATION, TEST FACILITIES, TEST
METHODOLOGY AND TEST EXPERTISE NECESSARY TO SUPPORT ARMY MATERIEL
DEVELOPMENT.

The best of the second of the

DIR.MR. CLYDE D. HARDIN

|               | PROGRA         | M DATA BY FISC  | AL YEAR (MILLION | \$)          |
|---------------|----------------|-----------------|------------------|--------------|
| PROGRAM       |                | 1978            | 1979             |              |
|               |                | (ACTUAL)        | (ACT + EST)      |              |
| TUTAL ROTEE   |                | 34.973          | 34 2830          |              |
| TOTAL PROCURE | MENT           | 57.988          | 63.721           |              |
| TOTAL DEM     |                | 3.701           | 4.017            |              |
| TOTAL OTHER   |                | 0.000           | 0.000            |              |
| TOTAL ANNUAL  | LAB            | 96.662          | 102.568          |              |
| TOTAL INHOUSE |                | 22.427          | 26.471           |              |
| TOTAL INHOUSE | RDT&E          | 16.710          | 16.719           |              |
| ANNUAL OPERAT | ING COST       | 2.225           | 2.489            |              |
|               | PERSONNEL D    | ATA (END OF F   | Y 1978)          |              |
| PERSONNEL     | AUTHORIZED     | TOTAL           | TOTAL            | NON-         |
|               | STRENGTH       | PHDS            | PROF             | PROF         |
| MILITARY      | 58             | 1               | 6                | 52           |
| CIVILIAN      | 412            | . 8             | 224              | 188          |
| TOTAL         | 470            | 9.              | 230              | 240          |
|               | SPA            | CE AND PROPERT  | Y                |              |
| ACRES         | SPACE (THOUSAN | IDS OF SQUARE F | FFT) COST        | (MILLION \$) |
|               | LAB AN         | MIN OTHER       | TOTAL REAL P     | ROP EQUIP    |
| 0             | 142.936 13.    | 617 48.502      |                  | 000 86.420   |

...MISSION

QRC READINESS.

FNGR SPT TO READINESS MGRS IN MISSION AREAS.

EWLAB IS LEAD LAB FOR EW TECH, HE TRU MM, IR TRU UV.

RESCH AND DEV ESSENTIAL TO EW AND SELECTED AREAS OF INTEL.

\*\*\*CURRENT IMPORTANT PROGRAMS

FW/SIGINT: R&D/PRODUCTION OF SIG/INT EW EQUIPMENT

ELECTROMAGNTIC SYS FOR PENETRATION AID \*\*ELECTROMAGNTIC CMS AND CCMS

VULN RED ECCMS OF US ECMS SYS SO US FORCES CAN OPR IN DCN SIGINT ENVIR

FOCAL PT FOR ARMY ECMS/CCMS DEV AND ASSESSMENT ACTIVITIES.

ENCOMPASSES APPLD RDA INCL QRC DEV AND SPT IN INTEREPT, DF, SIG ANALYSIS. JAM DECEPT SIG INTEL ACQUST INTEL CNTR INTEL VULN AND COUNTER COUNTERMEA TECHNICAL FACILITIES: BIG CROW(KC-135), AIRBORNE EW LABORATORY, IRCM. SIMULATOR (US AND FOREIGN MISSILES), IR MEASUREMENTS AND DATA REDUCTION. ISMS ISIS MBL INSTR FAC IMDSO PHOTO PHYS SEC FAC EW INFO SYSTEM (QRC DATA BASE), WAYSIDE TEST AREA (HF, VHF, DF, JONOSONDE), ANTENNA RANGE. FAC DF ANT PAT SANDY HOOK (FLINT) MEAS ANECHOIC CHAMB MICROWAVE ANT MEAS ELECTRONICALLY SECURE LABORATORY AREA.

INSTALLATION: FLECTRONICS R & D TECH SUPPORT ACTIVITY

FT.MONMOUTH, N.J.

CDR.COL. F. L. BOWMAN

|               | PROGRAM DA         | NTA BY FISC | CAL YEAR (MILLION | \$1          |
|---------------|--------------------|-------------|-------------------|--------------|
| PROGRAM       |                    | 1978        | 1979              |              |
|               | (AC                | TUAL)       | (ACT + EST)       |              |
| TOTAL ROTEE   |                    | 5.248       | 5.459             |              |
| TOTAL PROCUR! | EMENT              | 0.486       | 0.506             |              |
| TOTAL DEM     |                    | 0.351       | 0.380             |              |
| TOTAL OTHER   |                    | 0.000       | 0.4000            |              |
| TOTAL ANNUAL  | LAB                | 6.085       | 6.345             |              |
| TOTAL INHOUS  | E                  | 6.085       | 6.345             |              |
| TOTAL INHOUS  | E RDY&F            | 5.248       | 5.459             |              |
| ANNUAL OPERA  | TING COST          | 5.264       | 4.455             |              |
|               | PERSONNEL DATA     | (END OF F   | Y 1978)           |              |
| PERSONNEL     | AUTHORIZED         | TOTAL       | TOTAL             | NON-         |
|               | <b>ETRENGTH</b>    | PHDS        | PROF              | PROF         |
| MILITARY      | 6                  | õ           | 1                 | 5            |
| CIVILIAN      | 244                | O           | 37                | 207          |
| TOTAL         | 250                | 0           | 38                | 212          |
|               | SPACE              | AND PROPERT | ry                |              |
| ACDES         | CHACK ATHOUGHNDS ( | TE COULDE ! | COCT COCT         | 4MT11 TON 41 |

SPACE (THOUSANDS OF SQUARE FEET) ACRES COST (MILLION \$) ADMIN OTHER TOTAL REAL PROP LAB EQUIP 34.599 71.415 129.840 136 17.826 33.988 6.821

...MISSION
PROVIDE ENGINEERING SUPPORT AND SHOP SERVICES TO FACILITATE THE CONDUCT
OF RESEARCH AND DEVELOPMENT BY THE SEVERAL LABS PROJECT MANAGERS OTHER
SUBORDINATE COMMANDS CORPORATE LABORATORIES AS WELL AS OTHER
SERVICES

...CURRENT IMPORTANT PROGRAMS
COUNTER BATTERY RADAR
QUICK LOOK 1
SINGARS
QUICK FIX 1
CEFLY LANCER

\*\*\*FUNCTIONS/EQUIPMENT/CAPABILITIES
ENVIRONMENTAL EVALUATION FACILITY PROVIDE ENVIRONMENTAL TEST ON ARMY
ELECTRONIC EQUIP THRU THE USE OF CLIMACTIC CHAMBERS, MBC200 VIBRATION
MACHINES AND SHOCK MACHINE METROLOGY AND CALIBRATION FACILITY.

TIME DATA ACQUISITION AND CALIBRATION SYSTEM.

HP9600 PROVIDE CHARACTERIZATION OF ELECTRIC EQUIP OVER FREQUENCY RANGES.
CALIBRATION CAPABILITY FOR VOLTAGE CURRENT RESISTANCE RADIO FREQ MICROWAVE PWR FREQUENCY AND TEMP ELECTROMAGNETIC INTERFERENCE TEST FACILITY.

MECHANICAL DATA REDUCTION AND ANALYSIS FACILITY PROVIDES ANALYSIS OF
DATA FROM ENVIRONMENTAL TEST USING AN ORTHOLOG ANALYZER OR SAIO.COMPUTER
AIDED DESIGN AND MANUFACTURING DRAFTING SERVICES AND ALL TYPES OF SHOP
SERVICES.

the first the second of the

INSTALLATION: FLECTRONICS TECHNOLOGY AND DEVICES LAB

FT.MONMOUTH, N.J.

TECH-DIR-DR-C.G. THORNTON

DEP.DIR. MR. S. DANKO

|              |             | -        |           | WELD 4MT    |           |           |
|--------------|-------------|----------|-----------|-------------|-----------|-----------|
| 2222244      | טאים        |          |           | AL YEAR (MI | LLIUN \$3 |           |
| PROGRAM      |             | _        | 978       | 1979        | •         |           |
|              |             |          |           | (ACT + FST  |           |           |
| TOTAL ROTES  |             |          | 20.645    | 21.3        | 53        |           |
| TOTAL PROCUR | EMENT       |          | 0.035     | 4.2         | 75        |           |
| TOTAL CEM    |             |          | 0.051     | 0.4         | 94        |           |
| TOTAL OTHER  |             |          | 0.000     | 0.0         | 00        |           |
| TOTAL ANNUAL | LAR         |          | 20.731    | 26.1        | 22        |           |
| TOTAL INHOUS | E           |          | 13.250    | 13.1        | 29        |           |
| TOTAL INHOUS | E ROTEE     |          | 13.164    | 12.2        | 33        |           |
| ANNUAL OPERA | TING COST   |          | 0.000     | 0.0         | 00        |           |
|              | PERSONNE    | L DATA   | (END OF F | Y 1978)     |           |           |
| PERSONNEL    | AUTHORYZED  |          | TOTAL     | TOTA        | L         | NON-      |
|              | STRENGTH    |          | PHDS      | PRO         | F         | PROF      |
| MILITARY     | 0           |          | 0         | 0           |           | 0         |
| CIVILIAN     | 280         |          | 32        | 171         |           | 109       |
| TOTAL        | 280         |          | 32        | 171         |           | 109       |
|              |             | SPACE AN | D PROPERT | Y           |           |           |
| ACRES        | SPACE (THOU |          |           | •           | COST (MT) | 1 TON \$3 |
| AUILE        | LAB         |          | -         |             | REAL PROP | EQUIP     |
| 0            | 95.789      | 10-575   |           | 132.838     |           | 10.880    |

## ...MISSION

TO DEVELOP AN ESSENTIAL BASE IN ELECTRONICS TECHNOLOGY AND DEVICES CONSISTENT WITH NEXT GENERATION ARMY SYSTEM OPERATIONAL REQUIREMENTS. TO THIS END, AN APPLIED R&D PROGRAM IS PURSUED, FUCUSING ON CRITICAL BARRIER DEVICE AND MATERIAL PROBLEMS THAT INHIBIT DEVEL OF NEW ARMY SYSTEMS.

#### ...CURRENT IMPORTANT PROGRAMS

HIGH SPEED SIGNAL PROCESSING DEVICES FOR REAL TIME IDENT & LOCATION OF ENEMY FQUIPMENT & WEAPONS.WIDE BAND EFF JAMMING DEVICES.DECOY COMPONENTS FOR OPERATION FROM EXPENDABLE AB PLATFORMS.MICROWAVE MM-WAVE DEVICES FOR LOCATION IDENT DESTRUCTION OF TARGETS THRU SMOKE INCLEMENT WEATHER.LIGHT WEIGHT PORTABLE POWER FOR FIELD ARMY.HI-PWR PULSERS FOR LASERS/WEAPONS.

#### ...FUNCTIONS/EQUIPMENT/CAPABILITIES

FACILITIES ARE AVAILABLE FOR PERFORMING R&D ON PREPARATION, PROPERTIES & CONTROL OF ELECTRONIC MATERIALS FOR CONDUCTING R&D ON ELECTRONIC PARTS, DEVICES, INTEGRATED CIRCUITS AND ASSEMBLIES. LABORATORIES FOR PERFORMING R&D IN THESE AREAS ARE EQUIPPED WITH THE NORMAL ARRAY OF STD LABORATORY INSTRUMENTATION AND FACILITIES. LABORATORY WORK AREAS INCLUDE FACILITIES FOR THE COMPLETE DESIGN, FABRICATION AND TESTING OF IC'S, HYBRID CIRCUITS ASSEMBLIES, SEMICONDUCTOR DEVICES, QUARTZ CRYSTALS, MICROWAVE AND MM-WAVE DEVICES AND CIRCUITS, ELECTRON TUBES AND DISPLAY DEVICES. ALSO FACILITIES FOR PRIMARY, SECONDARY & SPECIFIC PURPOSE POWER SOURCES, ELECTROCHEMICAL RESEARCH, CHARACTERIZATION OF ELECTRONIC MATERIALS. THE LAB ALS PROVIDES ARMY CUSTOMERS WITH EXPERT SERVICES INCLUDING DIRECT R&D DEVELOPMENT, SUPPORT, CONSULTATION AND DIRECT PARTICIPATION IN SYSTEMS DEVELOPMENT.

In the state of th

INSTALLATION: ENGINEER TOPOGRAPHIC LABORATORIES

FT.BELVOIR.VA.

CDR.COL. DANIEL L. LYCAN

TECH.DIR.MR. R.P. MACCHIA

|               | PROGRAM         | DATA BY FIS  | CAL YEAR (MYELION | \$1          |
|---------------|-----------------|--------------|-------------------|--------------|
| PROGRAM       |                 | 1978         | 1979              | •            |
|               |                 | (ACTUAL)     | (ACT + FST)       |              |
| TOTAL ROTGE   |                 | 24.344       | 20.478            |              |
| TOTAL PROCURE | MENT            | 0.000        | 0.000             |              |
| TOTAL DEM     |                 | 1.835        | 2.209             |              |
| TOTAL OTHER   |                 | 0.276        | 0.275             |              |
| TOTAL ANNUAL  | LAB             | 26.405       | 22.962            |              |
|               |                 |              |                   |              |
| TOTAL INHOUSE |                 | 10.363       | 10.266            |              |
| TOTAL INHOUSE |                 | 8.995        | 8.845             |              |
| ANNUAL OPERAT | ING COST        | 2.384        | 2.600             |              |
|               | PERSONNEL DA    | TA (END OF   | FY 1978)          |              |
| PERSONNEL     | AUTHOR IZED     | TOTAL        | TOTAL             | NON-         |
|               | STRENGTH        | PHDS         | PROF              | PROF         |
| MILITARY      | 16              | 1            | <b>Q</b>          | 7            |
| CIVILIAN      | 269             | 19           | 178               | 91           |
| TOTAL         | 285             | 20           | 187               | 98           |
|               | SPAC            | E AND PROPER | TY                |              |
| ACRES         | SPACE (THOUSAND | S OF SQUARE  | FEET) COST        | (MILLION \$) |
| _             | LAB ADM         | IN OTHER     | TOTAL REAL P      |              |

...MISSION

33

ACCOMPLISHES RESEARCH AND DEVELOPMENT OF SYSTEMS, EQUIPMENT, PROCEDURES AND TECHNIQUES APPLICABLE TO MAPPING, SURVEYING, GEODESY, PHOTO-INTER-PRETATION AND MILITARY GEOGRAPHIC INFORMATION RELEVANT TO MILITARY OPERATIONS AND MATERIEL DEVELOPMENT.

13.300

111.022

6.000

10.600

7.000

\*\*\*CURRENT IMPORTANT PROGRAMS
SUPPORT TO PERSHINGII
TOPOGRAPHIC SUPPORT SYSTEM
POSITION AND AZIMUTH DETERMINING SYSTEM
QUICK RESPONSE MULTICOLOR PRINTER
EXPERIMENTAL DIGITAL INTERACTIVE FACILITY

90.722

FACILITIES INCLUDE A CARTOGRAPHIC LABORATORY TO STUDY THE PROBLEMS ASSOCIATED WITH HANDLING DIGITAL CARTOGRAPHIC DATA, A DIGITAL IMAGE PROCESSING LABORATORY TO STUDY THE MANIPULATION AND ENHANCEMENT OF TERRAIN IMAGERY FOR OBTAINING MAPPING AND GEOGRAPHIC DATA, AND A COHERENT OPTICS LABORATORY FOR DETERMINING THE POTENTIAL OF COHERENT OPTICS FOR TOPOGRAPHIC DATA PROCESSING. COMPUTATIONAL EQUIPMENT INCLUDES THE CDC 6400, GOODYEAR STARAN S-1000 AND DEC PDP 11/50. OTHER SPECIALIZED EQUIPMENT INCLUDE A COMTAL, DICOMED, PDS DIGITAL AUTOMATED MICRODENSITOMETER, A RECORDING OPTICAL SPECTRUM ANALYZER, POCKELS READOUT OPTICAL HODILAR, COLOR AND MULTIBAND AERIAL CAMERAS, PRECISION MENSURATION EQUIPMENT, AND A COHERENT RADAR SIGNAL PROCESSOR.

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INSTALLATION: ENGINEER WATERWAYS EXPERIMENT STATION

VICKSBURG .MS.

DIR.COL. JOHN L. CANNON

TECHLOIR MR. F.R. DROWN

|               | PROGR        | RAM DATA BY FIS | SCAL YEAR AMILEIUA | ( 2)         |
|---------------|--------------|-----------------|--------------------|--------------|
| PROGRAM       |              | 1978            | 1979               |              |
|               |              | (ACTUAL)        |                    |              |
| TOTAL ROTGE   |              | 14.504          |                    |              |
| YOTAL PROCURI | EMENT        | 0.000           | 0.000              |              |
| MAG JATOT     |              | 0.249           | 0.260              |              |
| TOTAL OTHER   |              | 41.032          | 45.405             |              |
| TOTAL ANNUAL  | LAB          | 55.785          | 61.385             |              |
| TOTAL INHOUSE | E            | 44.484          | 49.100             |              |
| TOTAL INHOUSE | E ROTAF      | 12.797          | 13,370             |              |
| ANNUAL OPERA  | FING COST    | 7.695           | 8.442              |              |
|               | PERSONNEL    | DATA (FND OF    | FY 1973)           |              |
| PERSONNEL     | AUTHORIZED   | TOTAL           | TOTAL              | NON-         |
|               | STRENGTH     | PHDS            | PRGF               | <b>ቅ</b> ጽዕኮ |
| MILITARY      | 37           | 2               | 31                 | 5            |
| CIVILIAN      | 1375         | 79              | 465                | 910          |
| TOTAL         | 1412         | 81              | 496                | 916          |
|               | S            | PACE AND PROPE  | RTY                |              |
| ACRES         | SPACE (THOUS | ANDS OF SQUARE  | FFET) COST         | (MILLION \$) |
|               | LAB          | ADMIN OTHER     | TOTAL REAL         | PROP FQUIP   |

# ...MISSION

722

MILEGIV FUNDED RSCH.DEVEINVES IN HYD. ECOLOGY. PERMEEXPEDIENT PAVEMENTS. SUIL. CONCRETE, FXPLO WPN FFF, EXPLO EXCAVATION. VEH MOBILITY GENVIRONMENTAL ASPECTS OF MIL OPEPATIONS. OPERATE TECH LIBRARY GOVERNMENT CEMENTS POZZOLAN TEST PROGRAM. SERVES CE, DARCOM. DNA. DOF. AF, NAVY. EPA & OTHER AGENCIES.

172.439

2268.972

20.240

359.819

#### ...CURRENT IMPORTANT PROGRAMS

HYDEMATH MODELING TO SOLVE RIVER, TIDAL, WIND-MAVE, ECOLOGICALESTRUC PROBS. RSCH ON VEH MOBILITY, REMOTE SENSING, ENVIR IMPACTS, GEARTEQUAXE DSGN CRIT. NUCSHE RSCH TO DEV CRIT FOR ED OF PROTECTIVE STRUC, BARRIERS GEXCAVATIONS. RSCH, DEVGFORMULATION OF NEWGIMP ENG CRIT ON ROADS, STOR AREAS. GAIRFIELDS, INVES OF CEMENTITIOUS MATERIALS AND RSCH OF MASS AND STRUCTURAL CONCRETE

#### ...FUNCTIONS/EQUIPMENT/CAPABILITIES

1736.714

CAPABLE OF PERF GEN INVES IN FLD OF HYD, SOIL NECH, CONCRETE, MOBILITY OF MIL VEH, EXPLO EFF, ECOLUGY & EXPLO EXCAVATION AND DEV OF STRUC & PAVENSN'TS DESIGN CRIT. THRU BREAPPLIED RSCH, THE CAPABILITY OF DEV METHODS & TECH AND THE TESTING OF MATEROUSE IS EXERCISED TO ASST IN ACCOMPAT OF THE CE MSN. WES RESERVATION CHIN BLDGS, TEST SITES, SPECIAL EQUIPORTHER PLANT FAC. TEST SITES & FAC FOR SP PURPOSES ARE MAINT IN OTHER AKEAS ON PERM OR TEMP BASIS. FAC INCL FLUMES OF DIFF TYPES & SIZES, WAVE & TIDE GENR MACH, DRILL EQUIP, FULLY EQUIPED SOILS, CONCRETE, CHEMISTRY, CALBR, ELCT & TEMPERATURE CON ENVIRONMENTAL MODEL LABS, X-RAY DIFFRACTION & SPECTROSCOPY APPAR, LARGE AND SMALL BLAST LUAD GENERATOR, 200K DYNAMIC LOADER, MOBILITY RSCH FAC, SINGLE AND MULTIPLE WHEEL LOAD F RTS, SUR EFF BLAST FAC, HIGHELOW FREQ VIBRATORS, ELECTRON MICROSCOPE, LARGE SCALE CMPT FAC AND TECH LIBRARY.

INSTALLATION: FIELD ARTILLERY BOARD

FT.SILL,OK.

PRES.COL. M.J. KINNE, JR.

|               | PROGRAM (        | DATA BY FISCA | L YEAR (MILLION | \$)          |
|---------------|------------------|---------------|-----------------|--------------|
| PROGRAM       |                  | 1978          | 19 <b>79</b>    |              |
|               | •                | ACTUAL)       | (ACT + EST)     |              |
| TOTAL ROTEE   |                  | 1.056         | 1.367           |              |
| TOTAL PROCURE | MENT             | 0.038         | 0.312           |              |
| M30 JATOT     |                  | 0.021         | 0.017           |              |
| TOTAL OTHER   |                  | 2.331         | 2.516           |              |
| TOTAL ANNUAL  | LAB              | 3.446         | 4.212           |              |
| TOTAL INHOUSE | <b>:</b>         | 3.446         | 4.212           |              |
| TOTAL INHOUSE | RDTEF            | 1.056         | 1.367           |              |
| ANNUAL OPERAT | TING COST        | 0.249         | 0.245           |              |
|               | PERSONNEL DATA   | A (END OF FY  | 1978)           |              |
| PERSONNEL     | AUTHORIZED       | TOTAL         | TOTAL           | NON-         |
|               | STRENGTH         | PHDS          | PROF            | PROF         |
| MILITARY      | 152              | 0             | 34              | 118          |
| CIVILIAN      | 35               | 0             | 4               | 31           |
| TOTAL         | 187              | 0             | 38              | 149          |
|               | SPACE            | AND PROPERTY  | •               |              |
| ACRES         | SPACE (THOUSANDS | OF SQUARE FE  | ET) COST        | (MILLION \$) |

|       |            | SPACE AN  | D PROPERTY |        |            |         |
|-------|------------|-----------|------------|--------|------------|---------|
| ACRES | SPACE (THO | USANDS OF | SQUARE FET | ET)    | COST (MILL | ION \$) |
|       | LAB        | ADMIN     | OTHER      | TOTAL  | REAL PROP  | EQUIP   |
| 23    | 22.566     | 32.302    | 17.640     | 73.008 | 3.330      | 0.842   |

PLAN CONDUCT AND REPORT ON OT I OT II AND OTHER USER-TYPE TESTS PARTICIPATE IN DT I AND D7 II AS DIRECTED PROVIDE ADVICE TO PROPONENT AGENCIES AND DEVELOPERS CONDUCT OTHER TESTS AND EVALUATIONS AS DIRECTED BY TRADOC

...CURRENT IMPORTANT PROGRAMS

OPERATIONAL TEST II XM736

OPERATIONAL TEST II SMALL UNIT TRANSCEIVERS

OPERATIONAL TEST II TRAINER RADAR TP036

OPERATIONAL TEST II XM753

OPERATIONAL TEST II BCS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
ONE HET STATIUN
TEST ITEMS AUDITIONAL SUPPORT IS OBTAINED FROM USAFACES WHEN NEEDED

INSTALLATION: FIRE CONTROL & SHALL CAL. WPNS SYSTS LAB

DOVER.N.J.

CDR.COL.AARON LARKING

DEP-DIR-DR-DONALD GYORGG

|               | PROGRAM       | DATA BY FIS | CAL YEAR (MILLION | \$)  |
|---------------|---------------|-------------|-------------------|------|
| PROGRAM       |               | 1978        | 1979              |      |
|               | (             | ACTUAL)     | (ACT + EST)       |      |
| TOTAL ROTGE   |               | 21.952      | 22.269            |      |
| TOTAL PROCURE | MENT          | 6.689       | 9.094             |      |
| TOTAL DEM     |               | 17.078      | 0.200             |      |
| TOTAL OTHER   |               | 0.000       | 0.000             |      |
| TOTAL ANNUAL  | LAB           | 45.719      | 31.563            |      |
| TOTAL INHOUSE |               | 28.983      | 20.066            |      |
| TOTAL INHOUSE | RDT&E         | 11.264      | 12.522            |      |
| ANNUAL OPERAT | TING COST     | 9.413       | 10.553            |      |
|               | PERSONNEL DAT | TA (END OF  | FY 1978)          |      |
| PERSONNEL     | AUTHORIZED    | TOTAL       | TOTAL             | NON- |
|               | STRENGTH      | PHDS        | PROF              | PROF |
| MILITARY      | 15            | 0           | 13                | 2    |
| CIVILIAN      | 608           | 20          | 347               | 261  |
| TOTAL         | 623,          | 20          | 360               | 263  |
|               |               |             |                   |      |

| SPACE AND PROPERTY |            |           |            |       |            |         |
|--------------------|------------|-----------|------------|-------|------------|---------|
| ACRES              | SPACE (THO | USANDS OF | SQUARE FEE | T)    | COST (MILL | ION \$) |
|                    | LAB        | ADMIN     | OTHER      | TOTAL | REAL PROP  | EQUIP   |
| 0                  | 0.000      | 0.000     | 0.000      | 0.000 | 0.000      | 0.000   |

# ...MISSION

ACCOMPLISH EXPLORATORY, ADVANCED AND ENGINEERING DEVELOPMENT AND LIFE CYCLE TECHNICAL RESPONSIBILITY FOR FIRE CONTPOL AND ALL WEAPON SYSTEMS AND ANCILLARY ITEMS THROUGH 40MM. FIRE CONTROL RESPONSIBILITY INCLUDES ALL COMBAT VEHICLES, FIELD ARTILLERY, HELICOPTERS, AIR DEFENSE & INFANTRY

... CURRENT IMPORTANT PROGRAMS FIRE CONTROL AND SMALL CALIBER ARMAMENT TECHNOLOGY SQUAD AUTOMATIC WEAPON MORTAR FIRE CONTROL CALCULATUR NATO SMALL ARMS FIELD EVALUATION FIRING PORT WEAPON XM231 FOR INFANTRY FIGHTING VEHICLE

#### ... FUNCTIONS/EQUIPMENT/CAPABILITIES

THE LABORATORY CONDUCTS RESEARCH, EXPLORATORY, ADVANCED AND ENGINEERING DEVELOPMENT IN GUN FIRE CONTROL AND SMALL CALIBER WEAPON SYSTEMS. IT MAINTAINS TEST BED FACILITIES WHICH PERMIT EVALUATION OF SYSTEMS IN THE COMMODITY AREAS OF FIRE CONTROL, AIR DEFENSE AND COMBAT VEHICLES. THE LAB HAS THE CAPABILITY FOR DESIGN AND EVALUATION OF OPTICAL SYSTEMS, MATERIALS AND SIGHTING DEVICES, DIGITAL AND ANALOG SIGNAL PROCESSORS AND GUN/TURRET STABILIZATION AND CONTROL SYSTEMS, SMALL CALIBER HEAPONS, WEAPON MECHANISMS AND MOUNTS, PROJECTILES, PENETRATORS, SHAPED CHARGE LINFRS, PROPELLANTS, PRIMERS AND CARTRIDGE CASES.

SPACE & PROPERTY DATA NOT SHOWN.INCLUDED UNDER LARGE CALIBER WEAPONS SYSTEM LAR.

WASHINGTON . D. C.

#### INSTALLATION: HARRY DIAMOND LABORATORIES

CDR.COL. CLIFTON R. GOODWIN TECH.

NYN TECH.DIR. WILLIAM W. CARTER

|                       | PROGRAM DATA BY FISCA | L YEAR (MILLION \$) |
|-----------------------|-----------------------|---------------------|
| PROGRAM               | 1978                  | 1979                |
|                       | (ACTUAL)              | (ACT + EST)         |
| TOTAL ROTGE           | 69.028                | 56,643              |
| TOTAL PROCUREMENT     | 53.533                | 51.575              |
| TOTAL DEM             | 2.228                 | 1.579               |
| TOTAL OTHER           | 1.981                 | 3.835               |
| TOTAL ANNUAL LAB      | 126.770               | 113.626             |
| TOTAL INHOUSE         | 41.250                | 42.464              |
| TOTAL INHOUSE RDTGE   | 30.348                | 30.134              |
| ANNUAL OPERATING COST | 13.518                | 13.231              |

|           | PERSONNEL DATA | (FND OF FY | 1978)  |      |
|-----------|----------------|------------|--------|------|
| PERSONNEL | AUTHORIZED     | TOTAL      | TOTAL. | NON- |
|           | STRENGTH       | PHDS       | PROF   | PROF |
| MILITARY  | 6              | 2          | 5      | 1    |
| CIVILIAN  | 1194           | 58         | 803    | 391  |
| TOTAL     | 1200           | 60         | 808    | 392  |

|       |            | SPACE AN   | D PROPERTY |          |            |          |
|-------|------------|------------|------------|----------|------------|----------|
| ACRES | SPACE (THO | DUSANDS OF | SQUARE FF  | ET)      | COST (MILI | LION \$) |
|       | LAB        | ADMIN      | OTHER      | TOTAL    | REAL PROP  | EQUIP    |
| 2343  | 405.382    | 70.732     | 272.541    | 748 .655 | 47.594     | 39.768   |

#### ...MISSION

MISSION: ELECTRONIC FUZES, NUCLEAR WEAPONS EFFECTS TECHNOLOGY, SPECIAL RADAR COMPONENTS AND SYSTEMS, ELECTRONICS TECHNOLOGY, COMPONENTS, AND CIRCUITS, FLUIDIC COMPONENTS AND SYSTEMS, ELECTRO-OPTICAL DEVICES, SELECTED INSTRUMENTATION/SIMULATORS, COUNTERMEASURES (CM) AND COUNTER-CM

...CURRENT IMPORTANT PROGRAMS
CURRENT SIGNIFICANT PROGRAMS: R&D OF XM818E1 FUZE FOR PATRIOT MISSILE,
NUCLEAR WEAPONS EFFECTS RESEARCH AND TECHNOLOGY,
R&D AND PRODUCTION SUPPORT FOR XM749 AND M735 FUZES FOR NUC. ARTILLERY,
R&D AND PRODUCTION SUPPORT FOR XM741 AND M734 FUZES FOR MORTAR,
R&D OF XM445 FUZE FOR GENERAL SUPPORT ROCKET SYSTEM.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
MAJOR EQUIPMENT AND FACILITIES:
NUCLEAR FACILITIES: GAMMA-RAY SIMULATION (AURORA), HIGH-INTENSITY
FLASH X-RAY (HIFX), COBALT-60, AND ELECTROMACNETIC PULSE SIMULATORS.
ELECTRONIC DESIGN FACILITIES: THICK-FILM HYBRID CIRCUIT FACILITIES;
MICROWAVE ANECHOIC CHAMBER, AND GAITHERSBURG RESEARCH FACILITY.
FUZING FACILITIES: ARTILLERY SIMULATOR, ENVIRONMENTAL TESTING,
BLOSSOM POINT TEST FACILITY, AND MAGNETIC SIGNATURE FACILITY.

INSTALLATION: HUMAN ENGINEERING LABORATORY

ABERDEEN PRO.GR.,M

DIR.BR. JOHN D. WEISZ

|                | PROGRA      | M DATA BY FISH | CAL YEAR (MILLION & | ; )  |
|----------------|-------------|----------------|---------------------|------|
| PROGRAM        |             | 1978           | 1979                |      |
|                |             | (ACTUAL)       | (ACT + FST)         |      |
| TOTAL ROTGE    |             | 7.772          | 7.750               |      |
| TOTAL PROCUREM | ENT         | 0.075          | 0.050               |      |
| MAG JATOT      |             | 0.297          | 0.371               |      |
| TOTAL OTHER    |             | 0.412          | 0.435               |      |
| TOTAL ANNUAL L | 8A.         | 8.556          | 8.606               |      |
| TOYAL INHOUSE  |             | 7.033          | 7.531               |      |
| TOTAL INHOUSE  | ROTEE       | 6.249          | 6.675               |      |
| ANNUAL OPERATI | NG COST     | 3.111          | 3.312               |      |
|                | PERSONNEL D | ATA (FND OF    | FY 1978)            |      |
| PERSONNEL      | AUTHORIZED  | TOTAL          | TOTAL               | NON- |
|                | STRENGTH    | PHDS           | PR NF               | PROF |
| MILITARY       | 33          | 1              | 13                  | 20   |
| CIVILIAN       | 142         | 16             | 106                 | 36   |
| TOTAL          | 175         | 17             | 119                 | 56   |
|                | SPA         | CE AND PROPER  | TY                  |      |

SPACE (THOUSANDS OF SQUARE FEET) ACRES COST (MILLION \$) TOTAL REAL PROP LAB ADMIN OTHER FOUITP 22.000 12 25.800 29.000 76.800 4.412 3.806

...MISSION CONDUCTS FUNDAMENTAL AND APPLIED RESEARCH IN HUMAN FACTORS ENGINEFRING. PROVIDES DIRECT DESIGN SUPPORT TO ALL MATERIEL DEVELOPMENT PROGRAMS SPON SORED BY DARCOM. FOURTEEN DETACHMENTS AND/OR LIAISON REPRESENTATIVES HAVE BEEN ESTABLISHED AT DARCOM COMMANDS, CRTC AND TRADOC CTRS/SCHOOLS.

... CURRENT IMPORTANT PROGRAMS HELBAT VII - MAJOR ARTILLERY FIELD TRIAL FEMALE SOLDIER PERFORMANCE IN COMBAT LIKE TASKS UP-GRADING THE AMMUNITION RESUPPLY PROCESS DETERMINE WEAKNESSES IN "SPARE PARTS" ORDERING HUMAN FACTORS FNG IN SPT UF ALL MATERIEL BEING DEVELOPED BY DARCOM

... FUNCTIONS/EQUIPMENT/CAPABILITIES DATA ACQUISITION AND BIOTELEMETRY SYSTEM GAT 2M HELICOPTER SIMULATOR COMMAND CONTROL SIMULATOR SYS AND TEST FACILITY ACOUSTICAL RSCH ANECHOIC CHAMBER REVERBERANT ROOM LONG RANGE POSITIONED DETERMINING SYSTEM INSTRUMENTED PHYSICAL ENDURANCE COURSE EYE MOVEMENT MEASURING DEVICE SMALL ARMS TEST FIRING RANGE NOISE MEASUREMENT AND ANALYSIS INSTRUMENTATION WOOD AND METAL WORKING TEST SUPPORT CAPABILITIES HUMAN PERFORMANCE DATA BANK ARMOR TEST SITE

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FT.BENNING.GA.

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#### INSTALLATION: INFANTRY BOARD

PRES.COL. JAMES P. LEIGHTON

|               | . PROG       | RAM DATA BY F  | ISCAL YEAR (MI | LLION \$)  |          |
|---------------|--------------|----------------|----------------|------------|----------|
| PROGRAM       |              | 1978           | 1979           |            |          |
|               |              | (ACTUAL)       | (ACT + FST)    | <b>)</b>   |          |
| TOTAL ROTEE   |              | 1.589          |                |            |          |
| TOTAL PROCURI | EMENY        | 0.074          | 0.3            | 29         |          |
| TOTAL DSM     |              | 0.012          |                | 00         |          |
| TOTAL OTHER   |              | 1.573          |                |            |          |
| TOTAL ANNUAL  | LAB          | 3.248          |                |            |          |
| TOTAL INHOUSE | Ĕ            | 3.248          | 4.0:           | 35         |          |
| TOTAL INHOUSE | E RDT&F      | 1.589          | 1.79           | 58         |          |
| ANNUAL OPERA  | TING COST    | 0.905          | 0.99           | 90         |          |
|               | PERSONNEL    | . DATA (END O  | F FY 1978)     |            |          |
| PERSONNEL     | AUTHORIZED   | TOTAL          |                | L          | NON-     |
|               | STRENGTH     | PHDS           | PRO            | F          | PROF     |
| MILITARY      | 124          | C              | 10             |            | 114      |
| CIVILIAN      | 55           | 0              | 5              |            | 50       |
| TOTAL         | 179          | o              | 15             |            | 164      |
|               |              | SPACE AND PROP | ERTY           |            |          |
| ACRES         | SPACE (THOUS | SANDS OF SQUAR | F FEET)        | COST (MILL | .ION \$1 |
|               | LAB          | ADMIN OTH      |                | REAL PROP  | EQUIP    |
| 10            | 0.000 B      | 35.653 31.0    | 89 66.742      | 0.900      | 0.779    |

...MISSION

PLAN CONDUCT REPORT ON OPERATIONAL TESTS 1/2/3. FORCE DEVELOPMENT TESTS & OTHER TESTS OF EQUIPMENT & ANCILLARY ITEMS TO BE USED BY INFANTRY UNITS FOR COMMAND & CONTROL, FIREPOWER, TARGET ACQUISITION, GROUND SURVEILLANCE, FIRE CONTROL. GROUND MOBILITY & TRAINING.

...CURRENT IMPORTANT PROGRAMS INFANTRY REMOTE TARGET SYSTEM (IRETS) MARKSMANSHIP & GUNNERY LASER DEVICE (MAGLAD) VIPER OT 11 SQUAD AUTOMATIC WEAPON (SAW OT/A) HIGH MOBILITY WEAPONS CARRIER

...FUNCTIONS/EQUIPMENT/CAPARILITIES CHEMICAL WARFARE-BIOLOGICAL WARFARE EQUIPMENT FOR INDIVIDUALS. PARTICIPATE IN DEVELOPMENT TESTS 1/2/3. PROVIDE ADVICE TO PROPONENT AGENCIES AND MATERIEL DEVELOPERS ON EQUIPMENT WHICH IS EITHER USED BY OR PROVIDES SUPPORT TO INFANTRYMEN. DATA AND INFORMATION DERIVED DIRECTLY FROM TEST EXPERIENCE WILL PROVIDE THE BASIS FOR SUCH ADVICE. CONDUCT OTHER TESTS AND EVALUATIONS AS DIRECTED BY COMMANDER TRADOC.

INSTALLATION: INSTITUTE OF DENTAL RESEARCH

WASHINGTON, D.C.

CDR.COL. DUANE F. CUTRIGHT

TECH-DIR-DR- GINO BATTISTONE

| PR(                   | OGRAM DATA BY FISCAL YFAR (MILLIC | N \$1 |
|-----------------------|-----------------------------------|-------|
| PROGRAM               | 1978 1979                         |       |
|                       | (ACTUAL) (ACT + FST)              |       |
| TOTAL RDTGE           | 2.019 2.408                       |       |
| TOTAL PROCUREMENT     | 0.000 0.000                       |       |
| TOTAL DEM             | 0.146 0.152                       |       |
| TOTAL OTHER           | 1.160 1.171                       |       |
| TOTAL ANNUAL LAB      | 3.325 3.731                       |       |
| TOTAL INHOUSE         | 2,363 2.671                       |       |
| TOTAL INHOUSE ROTEF   | 1.057 1.348                       |       |
| ANNUAL OPERATING COST | 0.450 0.584                       |       |

| PERSUNNEL DATA | ERNU OF F            | 4 14/81                                  |                                                           |
|----------------|----------------------|------------------------------------------|-----------------------------------------------------------|
| AUTHORIZED     | TOTAL                | TOTAL                                    | NON-                                                      |
| STRENGTH       | PHDS                 | PROF                                     | PROF                                                      |
| 63             | 5                    | 47                                       | 16                                                        |
| 26             | 2                    | 10                                       | 16                                                        |
| RÝ             | 7                    | 57                                       | 32                                                        |
|                | STRENGTH<br>63<br>26 | AUTHORIZED TOTAL STRENGTH PHDS 63 5 26 2 | AUTHORIZED TOTAL TOTAL STRENGTH PHDS PROF 63 5 47 26 2 10 |

|       |            | SPACE AN  | D PROPERTY |        |            |         |
|-------|------------|-----------|------------|--------|------------|---------|
| ACRES | SPACE (THO | USANDS OF | SQUARE FEE | T)     | COST (MILL | ION \$) |
|       | LAB        | AD™ IN    | OTHER      | TOTAL  | REAL PROP  | EQUIP   |
| 4     | 9.325      | 5 - 6 96  | 6.730      | 21.751 | 0.853      | 1.130   |

#### ...MISSION

DEVELOP TECHNIQUES TO TREAT WAR RELATED MAXILLOFACIAL INJURIES AND DENTOF DESEASE. PEVENTION AND CONTROL OF DENTAL DESEASE. PROVIDE DENTAL RESIDENCY PROGRAMS.

### ... CURRENT IMPORTANT PROGRAMS

BIODEGRADABLE MATERIALS FOR LONG TERM SLOW RELEASE AND ORGAN REPLACEMENT USE OF SALIVA FOR DETECTING EXPOSURE TO CHEMICAL AGENTS IN THE FIELD R&D OF NEW AND IMPROVED DENTAL MATERIALS FOR MILITARY USEAGE WORLD-WIDE STUDIES ON METHODS OF IMPROVING COMBAT CONTAMINATED WOUND HEALING STUDIES FOR IMPROVING METHODS OF CONTROLLING INFECTIONS IN COMBAT WOUNDS

# ...FUNCTIONS/EQUIPMENT/CAPABILITIES

DETERMINE PHYSICAL CHEMICAL AND MECHANICAL PROPERTIES OF METALS, ALLOYS, CERAMICS, PLASTICS, AND POLYMERS, TO INCLUDE STRESS TESTING AND ELECTRON MICROSCOPE EVALUATION. CONDUCT EXPERIMENTAL RESEARCH IN MICROBIOLOGY, BIOCHEMISTRY, IMMUNOLOGY, RADIATION MEDICINE, AND PHARMACOLOGY. TEST AND EVALUATE ANY FACET OF CLINICAL DENTISTRY, TO INCLUDE CLINICAL AND LABORATORY TECHNIQUES. PREPARE AND ANALYZE HISTOPATHOLOGIC SPECIMENS AND PERFORM DIFFERENTIAL DIAGNOSTIC EVALUATION ON THEM. PERFORM MOST FACETS OF ANIMAL SURGERY PEQUIRED TO SUPPORT RESEARCH EFFORT.

FT.SAM HOUSTON,TX.

INSTALLATION: INSTITUTE OF SURGICAL RESEARCH

26.424

CDR.DIR.COL. BASIL A. PRUITT, JR.

CH.SCI.DR. ARTHUR D. MASON

50.632

2.013

|               | PROGRAM         | DATA BY FISC   | AL YEAR (MILLION | \$)          |
|---------------|-----------------|----------------|------------------|--------------|
| PROGRAM       |                 | 1978           | 1979             |              |
|               |                 | (ACTUAL)       | (ACT + EST)      |              |
| TOTAL ROTEE   |                 | 2.008          | 2.062            |              |
| TOTAL PROCURE | MENT            | 0.000          | 0.000            |              |
| TOTAL OGM     |                 | 0.000          | 0.000            |              |
| TOTAL OTHER   |                 | 2.108          | 2.300            |              |
| TOTAL ANNUAL  | LAB             | 4.116          | 4.362            |              |
|               |                 |                |                  |              |
| TOTAL INHOUSE |                 | 4.116          | 4.362            |              |
| TOTAL INHOUSE | RDTEF           | 2.008          | 2.062            |              |
| ANNUAL OPERAT |                 | 0.819          | 0.826            |              |
|               | PERSONNEL DA    | ATA (END OF F  | V 10781          |              |
| PERSONNEL     | AUTHORIZED      | TOTAL          | TOTAL            | NON-         |
| PERSUMMEL     | STRENGTH        | PHDS           | PROF             | PROF         |
| MILITARY      | 134             | 16             | 18               | 116          |
| · · · · · ·   | = ::            |                | ·                |              |
| CIVILIAN      | 80              | 6              | 19               | 61           |
| TOTAL         | 214             | 22             | 37               | 177          |
|               | SPA             | CE AND PROPERT | Υ                |              |
| ACRES         | SPACE (THOUSANI | DS OF SQUARE F | FET) COST        | (MILLION \$) |
|               | LAB ADI         | MIN OTHER      | TOTAL REAL F     | PROP EQUIP   |
|               |                 |                |                  |              |

...MISSION

CONDUCTS BASIC AND CLINICAL RESEARCH ON SEVERE BURN INJURIES.AND THIER COMPLICATIONS. PROVIDES TREATMENT FOR BURNED PATIENTS AND TRAINS SPECIFIED PERSONNEL IN THE TOTAL MANAGEMENT OF SUCH PATIENTS. OPERATES 40 BEDS FOR HOSPITALIZATION OF SERIOUSLY INJURED BURN PATIENTS.

22.408

1.800

...CURRENT IMPORTANT PROGRAMS
DIAGNOSIS TREATMENT AND PREVENTION OF INFECTION IN BURN PATIENTS
METABOLIC RESPONSE TO INJURY
HEMODYNAMIC RESPONSE TO INJURY
HOST DEFENSE IMPAIRMENT AFTER BURN INJURY
DIAGNOSIS AND TREATMENT OF PULMONARY COMPLICATIONS IN BURN PATIENTS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
PROVIDES CLINICAL AND LABORATORY SUPPRIET AND RESEARCH CAPABILITY IN THE
FIELDS OF PATHOLOGY, INCLUDING USE OF ELECTRON MICROSCOPE, MICROBIOLOGY,
EXPERIMENTAL SURGERY, PHYSIOLOGY, AND BIOCHEMISTRY. MAINTAINS AN ANIMAL
COLONY, ELECTRONIC SHOP, SURGICAL LIBRARY, METABOLIC CHAMBER, AND COMPUTER
FACILITY.

INSTALLATION: INTELLIGENCE & SECURITY BOARD

FT HUACHUCHA, AR.

PRES.COL. DWANE F. PINS

TECH.DIR.MR.PHILLIP E.WRALSTAD

|               | PRDG         | RAM DATA BY  | FISCAL YEAR ( | MILLION \$ | )           |
|---------------|--------------|--------------|---------------|------------|-------------|
| PROGRAM       |              | 1978         | 197           | 9          |             |
|               |              | (ACTUAL)     | (ACT + F      | STI        |             |
| TOTAL ROTEE   |              | 1.09         |               | .842       |             |
| TOTAL PROCURE | MENT         | 0.11         | .7 0          | .152       |             |
| TOTAL DEM     |              | 0.00         |               | .000       |             |
| TOTAL OTHER   |              | 0.00         |               | .000       |             |
| TOTAL ANNUAL  | LAB          | 1.20         |               | .994       |             |
| TOTAL INHOUSE |              | 0.39         | 98 1          | .107       |             |
| TOTAL INHOUSE | RDTEF        | 0.36         | 1             | .107       |             |
| ANNUAL OPERAT | ING COST     | 0.36         | • <b>4</b> 0  | .428       |             |
|               | PERSONNEL    | DATA (END    | OF FY 1978)   |            |             |
| PERSONNEL     | AUTHORIZED   | TOTA         | AL TO         | TAL        | NON-        |
|               | STRENGTH     | PHO          | )\$ P         | ROF        | PROF        |
| MILITARY      | 100          |              | 0             | 46         | 54          |
| CIVILIAN      | 18           |              | 2             | 8          | 10          |
| TOTAL         | 118          |              | 2 2           | 54         | 64          |
|               | 5            | PACE AND PRO | PERTY         |            |             |
| ACRES         | SPACE (THOUS | ANDS OF SQUA | RE FEFT)      | COST (     | MILLION \$) |
|               | LAB          |              | HER TOTAL     | REAL PR    | OP EQUIP    |
| 10            | 0.000        |              | 000 28.00     | 0.2        |             |

...MISSION
PLAN, CONDUCT AND REPORT ON OT 1,0T 11,0T 11A, AND OTHER USER TYPE TESTS
OF TACTICAL INTELLIGENCE AND SECURITY MATERIAL. PROVIDE ADVICE ON TEST
AND EVAL MATTERS TO MATERIAL DEVELOPERS, PRODUCERS, OTHER SERVICES AND
PRIVATE INDUSTRY. CONDUCTS TEST AND EVAL AS DIRECTED BY CDR, TRADUC.

...CURRENT IMPORTANT PROGRAMS
MULTIPLE TARGET ELECTRONIC WARFARE SYSTEM AN/ALQ 143
AUTOMATIC GROUND TRANSPORTABLE EMITTER LOCATOR AND IDENTIFICATION SYSTEM
COUNTERMEASURES SYSTEM SPECIAL PURPOSE AN/ARQ 33.
TACTICAL JAMMER AN/MLQ 34.
EW COMPANY SIMULATOR.

\*\*\*FUNCTIONS/EQUIPMENT/CAPABILITIES
FLECTRONIC WARFARE MONITORING FACILITY (EWMF)-TRANSPORTABLE- HOUSEDIN
30FT ELECTRONIC VAN WITH FOLLOWING CAPABILITY: RECEIVERS 10KHZ-26GHZ,
ANTENNAS 30MHZ-40GHZ, TAPE RECORDERS, SPECTRUM ANALYZERS, OSCILLOSCOPES,
REQUIRES 5 TON TRACTOR GOR TOWING. OTHER FACILITIES INCLUDE OVER 70000
ACRES AT FT HUACHUCHA, 23000 ACRES AT WILLCOX DRY LAKE, AND 1505000 ACRES
AT GILA BEND (UPON REQUEST) THAT CAN BE USED AS RANGES FOR OPERATIONAL
TESTING OF INTEL/EW SYSTEMS.

INSTALLATION: KWAJALEIN MISSILE RANGE, MARSHALL ISLANDS

APO SAN FRANCISCO

and the same trade

DIR.COL. R.A. PARSONS

DEP.DIR.COL. O.E. OVA

|               | PROGRA         | A DATA BY FISC | AL YEAR (MILLION | \$1          |
|---------------|----------------|----------------|------------------|--------------|
| PROGRAM       |                | 1978           | 1979             |              |
|               |                | (ACTUAL)       | (ACT + EST)      |              |
| TOTAL ROTEF   |                | 95.221         | 105.759          |              |
| TOTAL PROCURE | MENT           | 0.000          | 0.000            |              |
| TOTAL DEM     |                | 0.000          | 0.000            |              |
| TOTAL OTHER   |                | 3.428          | 7.816            |              |
| TOTAL ANNUAL  | LAB            | 98.649         | 113.575          |              |
| TOTAL INHOUSE |                | 5.428          | 5.720            |              |
| TOTAL INHOUSE | RDT&E          | 4.603          | 4.850            |              |
| ANNUAL OPERAT | ING COST       | 0.450          | 0.450            |              |
|               | PERSONNEL D    | ATA (END OF F  | Y 1978)          |              |
| PERSONNEL     | AUTHORIZED     | TOTAL          | TOTAL            | NON-         |
|               | STRENGTH       | PHDS           | PROF             | PROF         |
| MILITARY      | 27             | 0              | 18               | •            |
| CIVILIAN      | 103            | 0              | 55               | 48           |
| TOTAL         | 130            | 0              | 73               | 57           |
|               | SPA            | CE AND PROPERT | <b>TY</b>        |              |
| ACRES         | SPACE (THOUSAN | US OF SQUARE P | EET) COST        | (MILLION \$) |
|               | LAB AD         | MIN OTHER      | TOTAL REAL P     | PROP EQUIP   |
| 1491          | 0.000 158.     | 047 2280.823   | 2438.870 592     | 832 140.161  |

# ...MISSION

PLAN, MANAGE, DIRECT, COMTADE AND COORDINATE OVERALL ACTIVITIES OF THE KMR IN ACCORDANCE WITH DOD NATIONAL RANGE POLICIES. SERVE AS THE PRINCIPAL ADVISOR FOR ALL MATTERS PERTAINING TO THE KMR RELATIONSHIP WITH THE TRUST TERRITORY OF THE PACIFIC ISLANDS.

...CURRENT IMPORTANT PROGRAMS
BALLISTIC MISSILE DEFENSE R&D TESTING
ADVANCED BALLISTIC REENTRY SYSTEMS USAF SAMSO R&D TESTING
MINUTEMAN 111 USAF SAMSO R&D TESTING
MINUTEMAN 116MINUTEMAN 111 USAF SAC OPERATIONAL TESTING
SPACE OBJECT IDENTIFICATION USAF SPACETRACK

#### ... FUNCTIONS/EQUIPMENT/CAPABILITIES

ALCOR, ALTAIR, TRADEX, 2 AN/MPS, AN/TPQ 18, AN/TPX 42 RADARS, 5 RADOTS, 3 SUPER RADOTS, 8 BALLISTIC CAMERAS, 4 SPECTRAL CAMERAS, PHOTO LABORATORY, 5 BAND TELEMETRY RECEIVING SYSTEMS INCL 8 AUTO TRACKING ANTENNAS, RECEIVE AND RE CORD SYS, DATA SEPARATION AND DISPLAY SYS, AND DATA DISTRIBUTION SYS, 2 SPLASH DETECTION RADARS, HYDRO ACCOUSTIC IMPACT TIMING SYS, RV RECOVERY SYS, LONG HAUL AND INTRA ATOLL COMMUNICATIONS SYS, METEOROLOGICAL SYS INCL RANGE METEOROLOGICAL SOUNDING SYS, LAUNCH/DRDNANCE FACILITIES, RANGE OPNS CONTROL CENTER, RANGE SAFETY SYS, CALIBRATION LABORATORY, TIMING AND COUNT DOWN SYS, FREQUENCY CONTROL AND ANALYSIS SYS, 7600/6400 CENTRAL DATA PRO CESSING CENTER, POSITION NAVIGATION SYS, AIR TRAFFIC CONTROL SYS INCLUDING TACAN, LOW FREQUENCY HOMING BEACON AND A/G COMMUNICATIONS CLOSED CIRCUIT TELEVISION SYS, DATA REDUCTION AND ACCURACY ANALYSIS FACILITY.

INSTALLATION: LARGE CALIBER WEAPONS SYSTEMS LAB

DOVER.N.J.

The state of the s

CDR.COL.DONALD P WHALEN

DEP.DIR.DR. JOHN T. FRASIER

|               | PROGRAM          | DATA BY FYS  | EAL YEAR (MILLION | 41           |
|---------------|------------------|--------------|-------------------|--------------|
| PP.OGRAM      | · NOONALL        | 1978         | 1979              | • <b>,</b>   |
|               |                  | ACTUAL)      | (ACT + FST)       |              |
| TOTAL ROTEE   |                  | 93.359       | 134.213           |              |
| TOTAL PROCURI | MENT             | 75.000       | 83.217            |              |
| TOTAL OGM     |                  | 9.301        | 10.200            |              |
| TOTAL OTHER   |                  | 0.378        | 0.462             |              |
| TOTAL ANNUAL  | LAB              | 178.038      | 228.092           |              |
| TOTAL INHOUSE | •                | 92.289       | 116.852           |              |
| TOTAL INHOUSE | RDTEE            | 41.810       | 55.303            |              |
| ANNUAL OPERA  | ring cost        | 15.210       | 19.039            |              |
|               | PERSONNEL DAT    | TA (END DE I | FY 1978)          |              |
| PERSONNEL     | AUTHORIZED       | TOTAL        | TOTAL             | NON-         |
|               | STRENGTH         | PHDS         | PROF              | PROF         |
| MILITARY      | 28               | 0            | 15                | 13           |
| CIVILIAN      | 1523             | 51           | 978               | 545          |
| TOTAL         | 1551             | 51           | 993               | 558          |
|               | SPACE            | AND PROPER   | TY                |              |
| ACRES         | SPACE (THOUSANDS | OF SQUARE    | FFET) COST        | (MILLION \$) |
|               | I.AB ADMI        | IN OTHER     | TOTAL REAL P      | ROP FQUIP    |
| 4000          | 204.685 184.0    | 72 128.700   | 517.457 8.        | 586 60.600   |

...MISSION

DES DEV & RSI WEAPONS SYSTEMS - GUN/AMMO - 40MM & FOR TANKS, ARTY, MORTAR RECOILLESS GUNS, AIR DEFENSE, MINES& DEMOLITION SYS, EXPLOS & WHOS SUPPORT TECH IN BASIC & APPLIED RES-LIFE CYCLF ENG & WEAPON SYS INTEGRENG SUPPT DURING PROCUREMENT, PRODUCTION& FIELD USE OF WEAPON SYSTEM

...CURRENT IMPORTANT PROGRAMS
SPT XM1 TANK-120MMAMMU/GLN-105MMIMP AT, MP AMMO-XM774/735/833/815
SCATTERARLE MINE SYSTEMS - MOPMS, GEMS
GUN PROPULSION INCL CHARGE DESIGN, REDUCTION WEAR&EROSION, LAUNCH CHARACT
IMPROVED SENSING MUNITIONS-TARG SENS & SELF FORG FRAG WHO-STAFF, SADARM
IMPROVED NON-NUCLEAR LANCE, PERSHING 2

...FUNCTIONS/EQUIPMENT/CAPABILITIES
DES & RSI WEAPONS SYSTEMS-GUN/AMMO-4DMM & FOR TANKS, ARTY, MORTAR
RECOILLESS GUNS, AIR DEFENSE, MINES & DEMOLITION SYS, FXPLOS & WHDS
SUPPORT TECH IN BASIS & APPLIED RES-LIFE CYCLE ENG & WEAPON SYS INTEGR
ENG SUPPT DURING PROCUREMENT, PRODUCTION FIELD USE OF WEAPON SYSTEM

SPACE AND PROPERTY DATA ARE FOR FY 1977.

CURRENT FIGURES NOT AVAILABLE AT TIME OF PRINTING.

INCLUDES FIRE CONTROL & SMALL CALIBER WEAPONS LABORATORY.

PRESIDIO.S.F..CA.

The state of the s

INSTALLATION: LETTERMAN ARMY INSTITUTE OF RESEARCH

CDR.COL. JOHN D. MARSHALL.JR.

|               | PROG         | RAM DATA BY  | FISCAL YEAR (M | ILLIUN \$) |          |
|---------------|--------------|--------------|----------------|------------|----------|
| PROGRAM       |              | 1978         | 1979           |            |          |
|               |              | (ACTUAL)     | (ACT + FS      | T)         |          |
| TOTAL ROTEE   |              | 6.36         | 8 5.           | 3 h 3      |          |
| TOTAL PROCURE | HENT         | 0.00         | G 0.           | 000        |          |
| TOTAL DEM     |              | 0.09         | 0 0.           | 090        |          |
| TOTAL OTHER   |              | 3.20         | 7 2.           | 915        |          |
| TOTAL ANNUAL  | LAB          | 9.66         | 5 9.           | 318        |          |
| TOTAL INHOUSE | <u>:</u>     | 9.66         | 5 9.           | 318        |          |
| TOTAL INHOUSE | RDTEF        | 6.36         | 8 6.           | 313        |          |
| ANNUAL OPERAT | ING COST     | 2.79         | 1 2.           | 077        |          |
|               | PERSONNEL    | DATA (FND    | OF FY 1978)    |            |          |
| FERSONNEL     | AUTHORIZED   | TOTA         | L TOT          | AL         | NON-     |
|               | STRFNGTH     | PHD          | S PR           | OF         | PROF     |
| MILITARY      | 153          | 2            | 8 13           | 7          | 16       |
| CIVILIAN      | 106          | 2            | 1 8            | 6 .        | 20       |
| TOTAL         | 259          | 4            | 9 22           | 3          | 36       |
|               | S            | PACE AND PRO | PERTY          |            |          |
| ACRES         | SPACE (THOUS | ANDS OF SQUA | RE FEFT)       | COST (MIL  | LION \$) |
|               | LAB          | ADMIN OT     | HER TOTAL      | REAL PROP  | EQUIP    |
| 0             | 122,108 2    | 6-506 305-   | 309 475-013    | 42.582     | 10.478   |

...MISSION
TO PROVIDE GENERAL MEDICAL RESEARCH CAPABILITY AND CONDUCT RESEARCH IN AREAS OF NUTRITION, FOOD WHOLESOMNESS, DERMATOLOGY, INFECTIOUS DISEASE, EFFECT OF LASERS, EXPERIMENT PSYCHOLOGY, TRAUMA, RESUSCITATION AND OTHER RESEARCH AS DIRECTED BY COMMANDER USAMRDC

\*\*\*CURRENT IMPORTANT PROGRAMS
RESUSCITATION SOLUTIONS FOR THE ACUTELY INJURED
APPLIED NUTRITION STUDIES OF DOD PERSONNEL
ADVERSE EFF ON HUMAN SKIN BY ENVIRONMENTAL FACTURS AND INFECTIONS AGENT
DETERMINATION OF SAFE THRESHOLD LEVELS OF COHERENT RADIATION
METABOLIC ADAPTATION AND METABOLIC INTERRELATIONSHIP

...FUNCTIONS/EQUIPMENT/CAPABILITIES
HUMAN METABOLIC WARD; SURGICAL OPERATING ROOMS, ENVIRONMENTAL ROOMS;
GERM-FREE ANIMALS; SCANNING — TRANSHISSION ELECTRON MICROSCOPES; AUTO
ANALYZERS . RECORDERS; AUTO BETA . GAMMA COUNTERS; SHAWDOW SHIELD WHOLE
BODY COUNTER; GAMMA CAMERA; AUTO AMINO ACID ANALYZERS; MASS SPECTROMETER
RSCH INCLUDE; NUTR SURVEYS & RATION TESTING; BIOMED CMPT RSCH; BASIC &
APPLIED STUDIES OF TRACE MINERAL METABOLISM, NUTRIENT ROR &INTERRELATIONSHIP; EXPER SURG; BIOCHEM STUDIES OF MUSCLE METABOLISM, FXERCISE &
FATIGUE IN MAN & MILITARY DOG. STUDIES OF DELAYED HYPERSENSITIVITY,
FRICTION BLISTERS, STUDIES ON BLOOD PRESERVATION; OPT\*ONAL BLOOD STORAGE
CONDITIONS & CELL FREE RESUSCITATION FLUIDS SKIN DIS., PROLONGED WATER
IMMERSION, & PRICKLY HEAT, MAINTAINS BREEDING COLONIES SPECIAL ANIMAL
STRAINS.

INSTALLATION: MATERIALS AND MECHANICS RESEARCH CENTER

WATERTOWN . MA.

DIR.DR. E. S. WRIGHT

CDR.DEP.DIR.COL.WILLIAM BENDIT

|                       | PROGRAM DATA BY FISCAL | YEAR (MILLION \$) |
|-----------------------|------------------------|-------------------|
| PROGRAM               | 1978                   | 1979              |
|                       | (ACTUAL) (             | ACT + FST)        |
| TOTAL ROYGE           | 22.368                 | 25.877            |
| TOTAL PROCUREMENT     | 8.421                  | 9.807             |
| TOTAL OEM             | 3.538                  | 4.055             |
| TOTAL OTHER           | 0.000                  | 0.000             |
| TOTAL ANNUAL LAB      | 34.327                 | 39.739            |
| TOTAL INHOUSE         | 21.993                 | 24.996            |
| TOTAL INHOUSE ROTEE   | 14.984                 | 16.816            |
| ANNUAL OPERATING COST | 5 • 6 6 3              | 6.755             |

|           | PERSONNEL DATA | (END OF F | Y 1978) |      |
|-----------|----------------|-----------|---------|------|
| PERSONNEL | AUTHORIZED     | TOTAL     | TOTAL   | NON- |
|           | STRENGTH       | PHDS      | PROF    | PROF |
| MILITARY  | 17             | 1         | 4       | 8    |
| CIVILIAN  | 604            | 64        | 197     | 407  |
| TOTAL     | 621            | 65        | 206     | 415  |

|       |            | SPACE AN  | D PROPERTY |         |            |         |
|-------|------------|-----------|------------|---------|------------|---------|
| ACRES | SPACE (THO | USANDS OF | SQUARE FE  | ET)     | COST (MILL | ION \$1 |
|       | LAB        | ADMIN     | OTHER      | TOTAL   | REAL PROP  | EQUIP   |
| 48    | 389.000    | 96.000    | 157.000    | 642.000 | 16.591     | 16.150  |

# ...MISJION

MANAGE DARCOM RDTE STRUCTURAL MATLS AND MECH PROGRAM & CONDUCTS TECH PROGRAMS IN MATLS & MECH FOR ARMY MATERIEL. EXECUTES PROGRAM INHOUSE & BY AS SIGNMENT & FUND TRANSFER FOR APPROPIATE SEGMENTS TO OTHER DARCOM, DOD & NON-DOD FACILITIES & EDUCATIONAL & INDUSTRIAL CONTRACTORS. CONTRACTORS

...CURRENT TMPORTANT PROGRAMS
BASIC RESEARCH IN MATERIALS AND MECHANICS
ADVANCED RESEARCH IN MATERIALS FOR AIRCRAFT
ADVANCED RESEARCH IN MATERIALS FOR ARMORED VEHICLES
ADVANCED RESEARCH IN MATERIALS FOR ARMAHENT
ADVANCED RESEARCH IN MATERIALS FOR MISSILES

#### ...FUNCTIONS/EQUIPMENT/CAPABILITIES

MANAGE & CONDUCT BASIC APPLIED & ADVANCED ROTE ON MATERIALS SUCH AS CERAMICS, METALS, ORGANIC& INORGANIC POLYMERS COMPOSITES, MANAGE AND CONDUCT
THEORETICAL& APPLIED STUDIES ON MECHANICS OF MATERIALS & SYSTEMS, IDENTIFY
& INVESTIGATE BASIC FACTORS INVOLVED IN PROCESSING & APPLICATION OF NEW
& IMPROVED MATERIALS, TECHNICALLY MANAGE FOUR INFORMATION CENTERS, ASSIST
IN DESIGN & DEVELOPMENT OF PROTOTYPES, DEVELOP METHODS FOR TEST & EVAL—
UATION OF MATERIALS & STRUCTURES, CONDUCT MANTECH PROGRAMS, INSURES THE
EFFECTIVE DEVELOPMENT, MANAGEMENT, AND COORDINATION OF TESTING TECHNIQUES
PROGRAM IN NOT CHEM & PHYSICAL, EXECUTES ASSIGNED PHASES OF INTERNATIONAL
STANDARDIZATION PROGRAMS, DEVELOPS LONG RANGE R&D PLANS CONSISTANT WITH
THE OBJECTIVES OF ARMY, AND OTHER GUIDANCE AS PROVIDED BY DARCOM INCLUD—
ING ASSESSMENTS OF GOVERNMENT AND PRIVATE RESEARCH IN RELATION TO PLANS.

ABERDN . PROV . GROUND . MD

INSTALLATION: MATERIEL SYSTEMS ANALYSIS ACTIVITY

DIR.DR. JOSEPH SPERRAZZA

DEP.DIR.COL. ALBERT DEPROSPERO

|                       | PROGRAM DATA BY FIS | CAL YEAR (MILLION \$) |
|-----------------------|---------------------|-----------------------|
| PROGRAM               | 1978                | 1979                  |
|                       | (ACTUAL)            | (ACT + EST)           |
| TOTAL RDT&F           | 15.691              | 17.012                |
| TOTAL PROCUREMENT     | 0.159               | 0.000                 |
| TOTAL DAM             | 2.901               | 3.143                 |
| TOTAL OTHER           | 0.439               | 0.499                 |
| TOTAL ANNUAL LAB      | 19.190              | 20.654                |
| TOTAL INHOUSE         | 12.525              | 13.352                |
| TOTAL INHOUSE ROTEF   | 9.576               | 10.812                |
| ANNUAL OPERATING COST | 1.943               | 2.765                 |
| 200                   | managa pata arab or | THE LOTAL             |

|           | PERSUNNEL UNIA | (FND OF F | 4 7A(0) |      |
|-----------|----------------|-----------|---------|------|
| PERSONNEL | AUTHORIZED     | TOTAL     | TOTAL   | NON- |
|           | STRENGTH       | PHDS      | PROF    | PROF |
| MILITARY  | 29             | 0         | 17      | 12   |
| CIVILIAN  | 411            | 19        | 305     | 106  |
| TOTAL     | 440            | 19        | 322     | 118  |

|       |            | SPACE AN  | O PROPERTY |        | 1          |         |
|-------|------------|-----------|------------|--------|------------|---------|
| ACRES | SPACE (THO | USANDS OF | SQUARE FEE | ET )   | COST (MILL | ION \$) |
|       | LAB        | ADMIN     | OTHER      | TOTAL  | REAL PROP  | EQUIP   |
| 4     | 8.140      | 89.818    | 1.715      | 99.673 | 2.070      | 0.767   |

...MISSION
DARCOM LEAD ACTIVITY FOR SYSTEMS ANALYSIS, SURVIVABILITY, RELIABILITY,
AVAILABILITY: MAINTAINABILITY METHODOLOGY. INDEPENDENT TEST DESIGN AND
OVERALL EVALUATION. LIFE CYCLE SURVEILLANCE. EFFECTIVENESS ESTIMATES FOR
WEAPON SYSTEMS. CONTACT WITH FIELD USERS. SYSTEMS ANALYSIS SUPPORT.

\*\*\*CURRENT IMPORTANT PROGRAMS
TEST DESIGN: EVALUATION OF AAH, HELLFIRE, FIGHTING VEH SYST, PATRIOT, AND XMI
EFFECTIVENESS: SURVIVABILITY OF PATRIOT, HEL, AAH, #HELLFIRE
INDEPENDENT EVALUATION OF EMI, BUSHMASTER, GSRS, PATRIOT, STINGER, AND VIPER
EVALUATE DEV YEST OF AN/TPO-36:37 COUNTERFIRE RADAR
PREPARE JOINT MUNITIONS EFFECTIVENESS MANUALS FOR AIR-TO-AIR, AIR-TO-SURF

...FUNCTIONS/EQUIPMENT/CAPABILITIE:

AMSAA PERSONNEL GIVE THIS ORGANIZATION MANY CAPABILITIES! EVALUATION OF CHEMICAL BIOLOGICAL SYSTEMS IN CONJUNCTION WITH OTHER SYSTEMS, WARGAMING, ASSESSMENT OF MILITARY WORTH AND COMBAT UTILITY OF EXISTING AND PROPOSED GROUND AND AIR WARFARE SYSTEMS, DESIGN OF DEVELOPMENT TESTS AND INDEPENDE NT EVALUATIONS OF MATERIEL SYSTEMS, OVERVIEW OF LIFE-CYCLE SURVEILLANCE PROGRAM, MAINTAINING CONTACT WITH USERS OF EQUIPMENT TO IDENTIFY NEEDED IMPROVEMENTS, EVALUATION OF PROPOSED SYSTEMS AS THEY RELATE TO LOGISTIC SYSTEM SUPPORT OPERATIONS, EVALUATION OF MISSILE GUIDANCE: CONTROL SYSTEMS AND FIRE CONTROL SYSTEMS.

ABERDEEN PROV.GR., MD.

#### INSTALLATION: MATERIEL TESTING DIRECTORATE

CDR.COL. FRANK S. KOOS

DIR.COL. CHARLES W. BINNEY

|                       | PROGRAM DATA BY FISCA | AL YEAR (MILLION \$) |
|-----------------------|-----------------------|----------------------|
| PROGRAM               | 1978                  | 1979                 |
|                       | (ACTUAL)              | (ACT + FST)          |
| TOTAL ROTEE           | 31.081                | 29.958               |
| TOTAL PROCUREMENT     | 10.236                | 9.866                |
| TOTAL DEM             | 1.089                 | 1.050                |
| TOTAL OTHER           | 6.386                 | 6.406                |
| TOTAL ANNUAL LAB      | 48.792                | 47.280               |
| TOTAL INHOUSE         | 47.786                | 46.309               |
| TOTAL INHOUSE ROTGE   | 30.364                | 29.767               |
| ANNUAL OPERATING COST | 18.966                | 20.705               |

|           | PERSONNEL DATA | (FND OF FY | 1978) |      |
|-----------|----------------|------------|-------|------|
| PERSONNEL | AUTHORIZED     | TOTAL      | TOTAL | NON- |
|           | STRENGTH       | PHDS       | PROF  | PROF |
| MILITARY  | 225            | 1          | 35    | 190  |
| CIVILIAN  | 755            | 11         | 201   | 554  |
| TOTAL     | 980            | 12         | 236   | 744  |

|       |            | SPACE AN  | D PROPERTY | 1        |            |         |
|-------|------------|-----------|------------|----------|------------|---------|
| ACRES | SPACE (THO | USANDS OF | SQUARE FE  | ET)      | COST (MILL | ION \$) |
|       | LAB        | ADMIN     | OTHER      | TOTAL    | REAL PROP  | EQUIP   |
| 22865 | 728.692    | 4.351     | 269.509    | 1002.552 | 16.188     | 44.167  |

#### ...MISSION

PLAN COT & REPT TESTS OF WPNS WPN SYS RKTS & GM SYS FIRE CON & TGT ACQ EQUIP ITEMS OF AMMO & MUN COMPONENTS CRT VEHS OTHER AUTO MAT GEN EQUIP. PROV COR SYS FOR PEOC OF ARMOR PLATE FOR ALL DARCOM INSTLS & ACTIVITIES. PROV SUPPORT SYCS TO APG FLEMENTS & SUPPORTED COMMANDS.

...CURRENT IMPORTANT PROGRAMS
XM1 TANK SYSTEM DERCOM (XM1)
M60-A3 TANK SYSTEM
GROUND 'MPLACE MINE-MARKING SYS (GEMSS)
HOW MED TOWED 155MM XM198 (155MXM198)
TO TON HIGH MOBILITY TRK (MAN) FRG

#### ...FUNCTIONS/EQUIPMENT/CAPABILITIES

TEST AREA 68700 ACRES, RANGE TO LAND IMPACT 25000M, RANGE TO WATER IMPACT 30000M, 41 MILES OF AUTMY CRS INCL 27 SP ENGR TEST CRS & OBSTACLES, VAR OF ENVIR OR COND EQUIP, SP CHAMBERS FOR SUBJECTING EQUIP TO DUST, SALT SPRAY, OR SOLAR RADN, ISOLATED VIBRATION TEST FAC WHICH PERMITS SHAKING EXPLOFUL FOR SIMULYANEOUSLY WITH TEMP CUMULITIONING, FAC FOR CONTROLLED TESTS OF ELEC CON & GUIDANCE EQUIP, FREQ SOURCE WHICH PERMITS TESTING ALL TYPES OF MAT IN PRESENCE OF A HIGH INTENSITY ELEC MAGNETIC RADN, SP FAC FOR TEST OF ARMOR PLATE, SP VEL & TGT EQUIP IS AVAIL FOR OBSERVATIONS DURING RAPID FIRE AS IS A RKT TRACK FOR CONTROLLED TERMINAL BALLISTIC TESTS, FAC AVAL FOR TESTS OF SP ELECTRONIC & FIRE CON EQUIP & RELATED SYS & COMPONENTS. PULSE RADIATION FAC AVAL FOR USE IN RADIATION TETTING NUCLEAR EFFECTS, SIMULATION REACTOR TECHNOLOGY & RADIATION PHYSICS.

INSTALLATION: MEDICAL BIOENGINEERING RED LABORATORY

FT.DFTRICK.MD.

CDR.COL. CHARLES M. DETTOR

|               | PR         | DGRAM DAT | A BY FISC | AL YEAR (  | ILLION \$) | )           |
|---------------|------------|-----------|-----------|------------|------------|-------------|
| PROGRAM       |            | 1         | 978       | 1979       | )          |             |
|               |            | LACT      | UAL)      | (ACT + F   | 57)        |             |
| TOTAL ROTEE   |            |           | 3.297     | 3          | .779       |             |
| TOTAL PROGUEE | MENT       |           | 0.000     | 0.         | 000        |             |
| MAG JATO      | •          |           | 0.115     | 0.         | 012        |             |
| FOTAL OTHER   |            |           | 0.841     | 0.         | 862        |             |
| TOTAL ANNUAL  | LAB        |           | 4.243     |            | 653        |             |
| TOTAL INHOUSE | <u>:</u>   |           | 4.243     | 4.         | 653        |             |
| TOTAL INHOUSE | RDTEE      |           | 3.287     | 3.         | 779        |             |
| ANNUAL OPERAT | ING COST   |           | 0.981     | 1          | .107       |             |
|               | PERSONN    | EL DATA   | (END OF F | Y 1978)    |            |             |
| PERSONNEL     | AUTHORIZED |           | TOTAL     | TO:        | TAL        | NON-        |
|               | STRENGTH   |           | PHD\$     | Pi         | ROF        | PROF        |
| MILITARY      | 28         |           | 2         |            | 14         | 14          |
| CIVILIAN      | 103        |           | 12        | :          | 36         | 67          |
| POTAL         | 131        |           | 14        |            | 50         | 81          |
|               |            | SPACE AN  | D PROPERT | · <b>Y</b> |            |             |
| ACRES         | SPACE (THO |           |           |            | COST (A    | ITLLION \$1 |
|               | LAB        | ADMIN     |           | TOTAL      |            |             |
| 5             | 45.888     | 27.300    |           | 107.25     |            |             |

# ...MISSION

CONDUCTS ENG RSCH AND DEVELOPMENT OF MILITARY MEDICAL EQUIPMENT CONDUCTS THE SURGEON GENERALS\* RDT&E PROGRAM IN INTEGRATED PEST MGMT CONDUCTS ENVIRONMENTAL & OCCUPATIONAL HEALTH RESEARCH CONDUCTS LIFE CYCLE SYSTEM MGMT OF MED DENTAL AND PEST MGMT MATERIEL

...CURRENT IMPORTANT PROGRAMS
DEVELOPMENT OF FIELD MEDICAL DEVICES AND EQUIPMENT
PEST MGMT RDTGE INCLUDING METHODS, MATERIALS, FQUIPMENT AND CONCEPTS
DEVELOP OF ENVIRONMENTAL QLTY STDS FOR DEMIL & INSTALL RESTORATION
ENVIRONMENTAL & CCCUPATIONAL HEALTH RSCH ON SMOKE & OBSCURANTS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
DESIGN, DEVELOP AND FABRICATE PROTOTYPE AND TEST MODELS OF MIL MED MAT PRODUCE LIMITED QUANTITIES OF MED MAT FOR URGENT MIL REQ DESIGN, DEVELOP AND FABRICATE PEST MGMT EQUIP AND SYSTEMS DESIGN, DEVELOP AND FABRICATE PROTOYPE AND TEST MODELS OF MIL DENTAL MAT PERFORM HEALTH AND ECOLOGICAL EFFECTS RSCH ON ENVIRONMENTAL POLLUTANTS PERFORM PILOT PLANT RSCH FOR WASTEWATER REUSE FOR FIELD ARMY

FT.DETRICK,MD.

#### INSTALLATION: MEDICAL R & D COMMAND

#### CDR.MG.WILLIAM S AUGERSON

|               | PRUGRAM       | PRUGRAM DAYA BY FISCAL YEAR (MILLION \$) |             |      |  |  |
|---------------|---------------|------------------------------------------|-------------|------|--|--|
| PROGRAM       |               | 1978                                     | 1979        |      |  |  |
|               | . (           | ACTUAL )                                 | (ACT + EST) |      |  |  |
| TOTAL RDT&F   |               | 24.397                                   | 26.048      |      |  |  |
| TOTAL PROCURI | EMENT         | 0.000                                    | 0.000       |      |  |  |
| MAG JATOT     |               | 0.000                                    | 0.000       |      |  |  |
| TOTAL OTHER   |               | 1.655                                    | 1.655       |      |  |  |
| TOTAL ANNUAL  | LAB           | 26.052                                   | 27.703      |      |  |  |
| TOTAL INHOUSE | E             | 26.052                                   | 27.703      |      |  |  |
| TOTAL INHOUSE | E RDT&E       | 24.397                                   | 26.048      |      |  |  |
| ANNUAL OPERA  | TING COST     | 2.041                                    | 2.077       |      |  |  |
|               | PERSONNEL DAT | A (END OF                                | FY 1978)    |      |  |  |
| PERSONNEL     | AUTHORIZED    | TOTAL                                    | TOTAL       | NON- |  |  |
|               | STRENGTH      | PHDS                                     | PROF        | PROI |  |  |

| PERSONNEL | AUTHORIZED | TOTAL | TOTAL | NON- |  |
|-----------|------------|-------|-------|------|--|
|           | STRENGTH   | PHDS  | PROF  | PROF |  |
| MILITARY  | 58         | 24    | 47    | 11   |  |
| CIVILIAN  | 93         | 1     | 3     | 90   |  |
| TOTAL     | 151        | 25    | 50    | 101  |  |

|       |            | SPACE AND | PROPERTY   |        |            |         |
|-------|------------|-----------|------------|--------|------------|---------|
| ACRES | SPACE (THO | USANDS OF | SQUARE FEE | T)     | CUST (MILL | ION \$1 |
|       | LAB        | ADMIN     | OTHER      | TOTAL  | REAL PROP  | EQUI P  |
| 0     | 0.000      | 23.300    | 0.000      | 23.300 | 0.000      | 0.146   |

...MISSION
ADMINISTRATION & COORDINATION OF THE RSCH, DEV, TEST & EVALUATION PROGRAM PROGLEMITED TO UNIQUE MIL PROBLEMS WITHIN US & OCONUS

...CURRENT IMPORTANT PROGRAMS

CARE OF THE WOUNDED

PREVENTION & CONTROL OF INFECTIOUS DISEASES
ENHANCEMENT OF MILITARY PERFORMANCE

PROTECTION AGAINST MILITARY ENVIRONMENTAL HAZARDS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
SERVES AS AN ADM HDQTRS FOR THE ARMY MEDICAL DEPT.

INSTALLATION: MEDICAL RSCH INST OF INFECTIOUS DISEASES FT.DETRICK.MD.

CDR.COL. RICHARD F. BARQUIST CH.SCI.DR. WILLIAM R. BEISEL

|        |               | PROGRAM DATA BY FISO | AL YEAR (MILLION \$) |
|--------|---------------|----------------------|----------------------|
| PROGRA | AM            | 1978                 | 1979                 |
|        |               | (ACTUAL)             | (ACT + EST)          |
| TOTAL  | RDTEE         | 10.771               | 10.096               |
| TOTAL  | PROCUREMENT   | 0.000                | 0.000                |
| TOTAL  | Mad           | 0.000                | 0.000                |
| TOTAL  | OTHER         | 3.641                | 3.890                |
| TOTAL  | ANNUA! LAB    | 14.412               | 13.986               |
| TOTAL  | INHOUSE       | 11.812               | 12.532               |
| TOTAL  | THUMISE BUTCE | 8 - 171              | 8 442                |

|           | PERSONNEL DATA | (END OF F | Y 1978) |      |
|-----------|----------------|-----------|---------|------|
| PERSONNEL | AUTHORIZED     | TOTAL     | TOTAL   | NON- |
|           | STRENGTH       | PHDS      | PROF    | PROF |
| MILITARY  | 308            | 53        | 104     | 204  |
| CIVILIAN  | 197            | 24        | 67      | 130  |
| TOTAL     | 505            | 77        | 171     | 334  |

5.332

4.926

|       |            | SPACE AN | D PROPERTY |         |            |         |
|-------|------------|----------|------------|---------|------------|---------|
| ACRES | SPACE LTHO | SANDS OF | SQUARE FE  | FT)     | COST (MILL | ION \$) |
|       | LAB        | ADMIN    | OTHER      | TOTAL   | REAL PROP  | EQUIP   |
| 43    | 80.854     | 19.820   | 209.699    | 310.273 | 17.824     | 4.775   |

# ...MISSION

ANNUAL OPERATING COST

PERF STUDIES ON THE PATHOGENESIS, DIAGNOSIS, PROPHYLAXIS, TREATMENT EPIDEMIOLOGY OF NATURALLY OCCURRING INFECT DISEASES OF MIL IMPORT WITH FMPHASIS ON PROBLEMS ASSOC WITH THE MEU DEFENSE AGAINST BIO AGENTS AND ON MICROORGANISMS WHICH REQ SPEC CONTAIN FACILITIES.

...CURRENT IMPORTANT PROGRAMS
DEVELOPMENT OF NEW VACCINES & TOXOIDS
IMMUNOLOGICAL STUDIES TO DETERMINE HOW TO IMPROVE VACCINE PRODUCTION
STUDIES ON PATHOGENESIS OF MILITARILY IMPORTANT INFECTIONS
DEVELOPMENT OF MORE RAPID & ACCURATE METHODS OF INFECTION DIAGNOSIS &
MEDICAL THERAPY FOR BW DEFENSE

...FUNCITONS/EQUIPMENT/CAPABILITIES
TWO LARGE BLOGS PROVIDE ABOUT 310000 SO FFFT OF SPACE & CONTAIN 23
MODERN LAB SUITES WHICH REPRESENT THE LATEST IN FUNCTIONAL CONCEPTS,
LAB DESIGN, & SAFETY.A COMPLEX PROG OF MED RSCH IS CONDUCTED & INCLUDES
IMMUNDLOGY, PATHOLOGY, PHYSIOLOGY, SEROLOGY, BIOCHEMISTRY, BIOPHYSICS,
MOLECULAR BIOLOGY, & TISSUE . JLTURE. SPECIAL CAPABILITIES INCLUDE ELECTRON
MICROSCOPY, RADIOIMMUNDASSAY LABS, A VACCINE PRODUCTION SUITE, HOSPITAL
FAC FOR MED PATIENTS & FOR RSCH STUDIES WITH VOLUNTEERS. USAMRIID RSCH
IS SUPPORTED BY TWO COMPUTERS & AN ANIMAL FARM.

the state of the s

REDSTONE ARSENAL, AL.

INSTALLATION: MISSILE RSCH . & DEV. CMD.

CDR.BG. FRANK P. RAGANO

TECH.DIR.DR.CHARLES MCKINLEY

|                       | PROGRAM DATA BY FISCA | AL YEAR (MILLION \$) |
|-----------------------|-----------------------|----------------------|
| PROGRAM               | 1978                  | 1979                 |
|                       | (ACTUAL)              | (ACT + FST)          |
| TOTAL ROTEE           | 57.745                | 62.730               |
| TOTAL PROCUREMENT     | 30.162                | 26.013               |
| TOTAL DEM             | 7.771                 | 8.706                |
| TOTAL OTHER           | 1.871                 | 3.238                |
| TOTAL ANNUAL LAB      | 97.549                | 100.687              |
| TOTAL INHOUSE         | 67.495                | 67.337               |
| TOTAL INHOUSE ROTEE   | 38.858                | 37.867               |
| ANNUAL OPERATING COST | 11.388                | 13.016               |
| PERSO                 | ONNEL DATA (FND OF F  | Y 1978)              |

| PERSUNNEL DATA | (FND OF F                            | 4 14191                                    |                                                               |
|----------------|--------------------------------------|--------------------------------------------|---------------------------------------------------------------|
| AUTHOR: ZED    | TOTAL                                | TOTAL                                      | NON-                                                          |
| STRENGTH       | PHDS                                 | PROF                                       | PROF                                                          |
| 26             | 0                                    | 19                                         | 7                                                             |
| 988            | 68                                   | 679                                        | 309                                                           |
| 1014           | 68                                   | 698                                        | 316                                                           |
|                | AUTHOR: ZED<br>STRENGTH<br>26<br>988 | AUTHORIZED TOTAL STRENGTH PHDS 26 0 988 68 | AUTHOR: ZED TOTAL TOTAL STRENGTH PHDS PROF 26 0 19 988 68 679 |

|       |           | SPACE AN   | D PROPERTY | ľ        |            |         |
|-------|-----------|------------|------------|----------|------------|---------|
| ACRES | SPACE (TH | DUSANDS OF | SQUARE FE  | FT)      | COST (MILI | LION #1 |
|       | LAB       | ADMIN      | OTHER      | TOTAL    | REAL PROP  | EQUIP   |
| 11000 | 663.993   | 318.702    | 428.008    | 1410.703 | 130.072    | 88.367  |

...MISSION
CONDUCT OR MANAGE RSCH, DESIGN, DEV & TEST OF ASSIGNED MATERIEL; PERFORM
R&D TO ADV TECH & GENERATE NEW SYSTEMS; REDUCE LEAD-TIME; IMPROVE RELIABILITY & ASSURE ACCEPTABLE PROD IMPROVEMENTS; PROCURE MAJOR ITEMS OF MATERIEL; MANAGE EFFORTS OF CONTRACTORS/OGA IN THE PRODUCTION OF MATERIELS

...CURRENT IMPORTANT PROGRAMS
MULTI-ENVIRONMENT ACTIVE RF SEEKER (MARFS).
QUIET RADAR
OBSCURATION PROGRAM
PRODUCTION ENGINEERING
NEW LASER CONCEPTS

# ...FUNCTIONS/EQUIPMENT/CAPABILITIES

TECH LAB IS EQUIPPED TO STUDY PROBLEMS IN PROP, AERO, G&C & STRUCTURES. MAJOR FAC IS MCMARROW LAB WHICH HOUSES 4 OF THE 6 DIR SOME OF THE UNIQUE FAC ARE: ADV SIM CTR, A COMPUTER COMPLEX SURROUNDED PERPHERALLY BY 3 ENVIR EFFECTS SIMULATORS; MSL COMPUTER SOFTWARE/HARDWARE CTR; SIG EVAL ENVIR CHAMBER; ARMY MSL OPTICAL RANGE DESIGNED TO MEASURE LASER RADAR SIG. ENGR LAB MAINTAINS & OPERATES 7 MAJOR TEST AREAS WHICH ENCOMPASS FLIGHT STATIC, ENVIRONMENTAL & FUNCTIONAL TEST. STATE-OF-THF-ART FACILITIES & EQP SUCH AS LASER TRACKERS & ELECTRO MAGNETIC RADAR SENSORS; ENGR DESIGN & DEV OF CORRECTIONS TO DESIGN DEFICIENCIES IN FIELDED WEAPON SYSTEMS. HIGH ENERGY LASER LAB PERFORMS ARMY LEAD LAB FUNCTION IN HIGH POWER/ENERGY LASER RSCH & TECH & MSL RSCH. A SMALL SCALE CLOSED CYCLE CIRCULATOR WITH E-BAND GUN THAT CAN BE REPETIVELY PULSED WAS ADDED IN FYTE.

The state of the s

INSTALLATION: MOBILITY EQUIP R & D COMMAND

FT.BFLVDIR.VA.

CDR.COL. BERNARD C. HUGHES TECH.DIR.MR. DONALD B. DINGER

| PROGRAM | DATA | BY | FISCAL | YEAR | (MILLION | \$ } |
|---------|------|----|--------|------|----------|------|
|---------|------|----|--------|------|----------|------|

| PROGRAM               | 1978     | 1979        |
|-----------------------|----------|-------------|
|                       | (ACTUAL) | (ACT + FST) |
| TOTAL ROTEF           | 55.028   | 68.284      |
| TOTAL PROCUREMENT     | 68.257   | 164.000     |
| TOTAL ORM             | 27.407   | 16.500      |
| TOTAL OTHER           | 0.000    | 0.000       |
| TOTAL ANNUAL LAB      | 150.692  | 248.784     |
| TOTAL INHOUSE         | 45.429   | 41.420      |
| TOTAL INHOUSE ROTEE   | 27.348   | 27.420      |
| ANNUAL OPERATING COST | 16.765   | 12.270      |

|           | PERSONNEL DATA | (END OF F | Y 1978) |      |
|-----------|----------------|-----------|---------|------|
| PERSONNEL | AUTHORIZED     | TOTAL     | TOTAL   | NON- |
|           | STRENGTH       | PHDS      | PŘOF    | PROF |
| MILITARY  | 79             | 1         | 25      | 54   |
| CIVILIAN  | 1204           | 20        | 318     | 886  |
| TOTAL     | 1283           | 21        | 343     | 940  |

|       |           | SPACE AN   | D PROPERT' | Y        |            |          |
|-------|-----------|------------|------------|----------|------------|----------|
| ACRES | SPACE (TH | OUSANDS OF | SQUARE F   | FET)     | COST (MILI | LION \$) |
|       | L.A.B     | ADMIN      | OTHER      | TOTAL    | REAL PROP  | EQUIP    |
| 1064  | 750-849   | 146.730    | 209-879    | 1107-458 | 58.523     | 31.770   |

# ...MISSION

PROVIDE TECHNOLOGY BASE & MANAGE MAT SYS & INITIAL ACO PGMS FOR ASGD MAT IN ORDER TO DEV NEW & IMPROVED SYS WHICH MEET DA ROMTS. ARE LOGISTICALLY SPTABLE CAN BE PROC WITHIN BUDGET CONSTRAINTS & ARE COST & OP EFFECTIVE. SPT READINESS COMMANDS IN FOLLOW-ON ACQ OF ASSGD MAT

... CURRENT IMPORTANT PROGRAMS MARINE & BRIDGE SYSTEMS **ELECTRIC POWER GENERATION** COUNTER INTRUSION SYSTEMS FUELS & WATER SYSTEMS COUNTERMINE SYSTEMS

# ...FUNCTIONS/EQUIPMENT/CAPABILITIES

FAC INCL

MINE FLD TEST LAMES, SENSOR TEST AREA, RDD FREQ ANECHOIC CHAMBER, FLUID STROKING TEST CHAMBER, FUELS & LURES LAB, FIRE SUPPRESSION CHAMBER, CAM EVAL & REF CEN. FUEL CELL & BTRY TEST STAS. FLEC PROPULSION SIM. MPPS POWER TEST CELLS. BRG TEST HANGAR. MOBILE STRESS ANAL VAN. TRK STABILITY TEST TILT TABLE, VEH TEST TRACKS, SHOCK & VIBRATION DYNAMIC SIM, ENVI SIN, MAT RSCH LAB, CALBR & INSTRUMENTATION, EMI SIM, COMPT CEN, STILL MOPIC SPT. RSCH & DEV MODEL FABRICATION SHOPS

- Consideration of the Consideration of the Constant of the Co

INSTALLATION: NATICK RED COMMAND

NATICK .MA.

CDR.COL. H. F. PENNY

TECH.DIR.DR. DALE H. SIELING

|               | PRO         | GRAM DATA B | Y FISCAI | L YEAR (M) | LLTON \$1 |          |
|---------------|-------------|-------------|----------|------------|-----------|----------|
| PROGRAM       | ,           | 1978        |          | 1979       |           |          |
|               |             | CACTUAL     | )        | TACT + EST | • )       |          |
| TOTAL ROTEE   |             | 23.         | 722      | 22.3       |           |          |
| TOTAL PROCURE | MENT        | 0.          | 300      | 0.0        | 49        |          |
| TOTAL DEM     |             | 16.         | 031      | 11.3       | 12        |          |
| TOTAL OTHER   |             | 3.          | 655      | 2.7        | '52       |          |
| TOTAL ANNUAL  | LAB         | 43.         | 708      | 36.4       | 25        |          |
| TOTAL INHOUSE | :           | 36.         | 884      | 31.0       | 194       |          |
| TOTAL INHOUSE | RDTEE       | 18.         | 840      | 17.8       | 78        |          |
| ANNUAL OPERAT | ING COST    |             | 587      | 7.0        |           |          |
|               | PERSONNE    | L DATA (EN  | D OF FY  | 1978)      |           |          |
| PERSONNEL     | AUTHORIZED  |             | TAL      | TOTA       | L         | NON      |
|               | STRENGTH    | þ           | HDS      | PRO        | )F        | PROF     |
| MILITARY      | 104         |             | 5        | 27         | •         | 77       |
| CIVILIAN      | 1098        |             | 76       | 422        | •         | 676      |
| TOTAL         | 1202        |             | 81       | 449        | •         | 753      |
|               | :           | SPACE AND P | ROPERTY  |            |           |          |
| ACRES         | SPACE (THOU |             |          | ET)        | COST (MIL | LION \$) |
|               | LAB         |             | OTHER    | TOTAL      | REAL PROP | EQUIP    |
| 2913          | 552.557     | 65.900 41   | 7.994    | 1036.451   | 27.050    | 18.366   |

#### ...MISSION

CONDUCT SCIENTIFIC RGD TO SUSTAIN AND PROTECT MIL PERS UNDER ALL CONDINS IDESIGN AND DEVELOP FOOD & FOOD SERV SYS, PROT CLOTHEAIRDROP DELIV EQUIP. ACCOMPLISH ILS FUNCTION IN AROVE & EXECUTE FIRST PROD PROD & FIELDING OF NEW ARMY HANAGED ITEMS. PROV TECH & ENG SUPPORT TO PROC AGENCIES.

... CURRENT IMPORTANT PROGRAMS RADIATION PRESERVATION OF FOOD SUBSISTENCE TECHNOLOGY ANALYSIS AND DESIGN OF MILITARY FEEDING SYSTEMS CLOTHING AND EQUIPMENT TECHNOLOGY AIRDROP TECHNOLOGY

# ...FUNCTIONS/EQUIPMENT/CAPABILITIES

COBALT 60 IRRAD FACIL DESIGNED FOR MAX FLEXIBILITY IN FOOD PROCESS; HIGH POWER LINEAR ACCELERATOR: PILOT PLANT FOR FOOD AND FOOD PACKAGING: BACTER-IOLOGY LAB EQUIP FOR INVESTIGATION OF PATHOGENIC MICROORGANISMS; HIGH RESOLUTION MASS SPECTROMETER FOR ANALYSIS OF VOLATILE COMPOUNDS:FFBETRON MACHINE USED AS A RAD SOURCE FOR PULSE RADIOLYSIS: PILOT PLANT TO STUDY DATA ON CONVERTING CELLULOSE TO GLUCOSE ENZYMATICALLY; DYFING AND FINISH-ING LAB FOR CONDUCTING STUDIES OF TEXTILES: COMPUTER GENERATED SYS OF CLOTHING PATTERNS TO OUTPUT COMPLETE TARIFF OF SIZES FROM ONE MASTER: CLIMATIC CHAMBERS TO TEST ITEMS AT TEMPS -57C TO 674C WITH WIND 6 RAIN; FLAME PROTECTIVE LAB AND FACILITY INCLUDING AN OUTDOOR FLAME PIT; UNIVAC 1106 COMPUTER WITH DISK PACSBTAPE DRIVES AND INPUT/OUTPUT EQUIP: SHOPS USED FOR DEVL, TESTING AND ENG ON CLOTHING, TENTAGE, SHELTERS, PCHTS;

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INSTALLATION: NIGHT VISION & ELECTRO OPTICS LABORATORY FT.BFLVOIR, VA.

DIR.MR. EDWARD J. SHEEHAN

DEP.DIR.MR. JOHN JOHNSON

|              | PROGRAM       | DATA BY FISC | AL YEAR (MILLION | \$) |
|--------------|---------------|--------------|------------------|-----|
| PROGRAM      |               | 1978         | 1979             |     |
|              | •             | ACTUAL)      | (ACT + FST)      |     |
| TOTAL ROTEE  |               | 33.705       | 31.949           |     |
| TOTAL PROCUM | REMENT        | 57.178       | 24.000           |     |
| M30 JATOT    |               | 0.615        | 0.500            |     |
| TOTAL OTHER  |               | 0.000        | 0.000            |     |
| TOTAL ANNUAL | LAB           | 91.498       | 56.449           |     |
| TOTAL INHOUS | SE            | 20.984       | 16.473           |     |
| TOTAL INHOUS | SE ROTAF      | 14.748       | 12.973           |     |
| ANNUAL OPER  | ATING COST    | 2.115        | 2.432            |     |
|              | PERSONNEL DAT | A (END OF F  | Y 1978)          |     |
| DEDCOMME     | AUTHODITED    | TOTAL        | TOTAL            |     |

| LEKOUNIEE DATA | I ENU UF F                          | 1 17/01                                    |                                                             |
|----------------|-------------------------------------|--------------------------------------------|-------------------------------------------------------------|
| AUTHORIZED     | TOTAL                               | TOTAL                                      | NON-                                                        |
| STRFNGTH       | PHDS                                | PROF                                       | PROF                                                        |
| 27             | 0                                   | 8                                          | 19                                                          |
| 521            | 36                                  | 244                                        | 277                                                         |
| 548            | 36                                  | 252                                        | 296                                                         |
|                | AUTHORIZED<br>STRENGTH<br>27<br>521 | AUTHORIZED TOTAL STRENGTH PHDS 27 0 521 36 | AUTHORIZED TOTAL TOTAL STRENGTH PHDS PROF 27 0 8 521 36 244 |

|       |            | SPACE AND | PROPERTY   |         |            |         |
|-------|------------|-----------|------------|---------|------------|---------|
| ACRES | SPACE (THO | USANDS OF | SQUARE FEE | T)      | COST (MILL | ION \$) |
|       | LAB        | ADMIN     | OTHER      | TOTAL   | REAL PROP  | EQUIP   |
| 38    | 180.639    | 27.186    | 20.000     | 227.825 | 32.000     | 50.000  |

#### ...MISSION

NV&FOL IS RESPONSIBLE FOR PROVIDING THE ARMY WITH A NIGHT VISION CAPABILITY THAT WILL ALLOW IT TO OPERATE WITH NEAR DAYLIGHT EFFICIENCY. THE SYS DEV PROGRAM IS STRUCTURED AROUND A STRONG TECHNOLOGY BASE WHICH CONSISTS OF FIR, IMAGE INTENSIFICATION, RADIATION SOURCES, & VISIONICS.

...CURRENT IMPORTANT PROGRAMS
LOW COST NIGHT VISION AIDS
AIRBORNE GOGGLES
THERMAL WEAPON SIGHT
SECOND GEN ELECTRO-OPTICAL DEVICES
NON-SCANNING THERMAL SYSTEMS

#### ...FUNCTIONS/EQUIPMENT/CAPABILITIES

NV&FOL'S MOST SIGNIFICANT FACILITY CAPABILITIES ARE: NIGHT VISION SYSTEM LAB, DETECTOR FABR & ANALYSIS FACILITY, X-RAY ANALYSIS FACILITY, SECONDARY-ION MASS SPECTROMETER, COMPUTER-CONTROLLED SCANNING FLECTRON MICROSCOPE, SURFACE RESEARCH FACILITY, IR DETECTOR FACILITY, FOCAL PLANE ARRAY TEST FACILITY, IR OPTICAL TEST FACILITY, SEMI-CONDUCTOR LASER RESEARCH FACILITY, SEMI-CONDUCTOR MATERIALS RESEARCH FACILITY, ELECTRONICS TEST FACILITY, INTERACTIVE IMAGE PROCESSING FACILITY, LASER RANGE(S), & 3-D MULTI-SPECTRAL SEARCH SIMULATOR.

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INSTALLATION: RESEARCH INST FOR BEHAVIORAL & SOCIAL SCI WASHINGTON.D.C.

CDR.COL. WILLIAM L. HAUSER TECH.DIR. JOSEPH ZEIDNER

ANNUAL OPERATING COST

...MISSION

| •                   | PROGRAM DATA BY FISC | AL YEAR (MILLION \$) |
|---------------------|----------------------|----------------------|
| PROGRAM             | 1978                 | 1979                 |
|                     | (ACTUAL)             | (ACT + FST)          |
| TOTAL ROTEE         | 23.502               | 23.020               |
| TOTAL PROCUREMENT   | 0.000                | 0.000                |
| YOTAL CEM           | 0.000                | 0.000                |
| TOTAL OTHER         | 0.735                | 0.773                |
| TOTAL ANNUAL LAR    | 24.237               | 23.793               |
| TOTAL INHOUSE       | 11.533               | 12.264               |
| TOTAL INHOUSE ROTEE | 10.798               | 11.491               |

|           | PERSONNEL DATA | (END OF F) | Y 1978) |      |
|-----------|----------------|------------|---------|------|
| PERSONNEL | AUTHORIZED     | TOTAL      | TOTAL   | NON- |
|           | STRENGTH       | PHDS       | PR∏F    | PROF |
| MILITARY  | 36             | 3          | 20      | 16   |
| CIVILIAN  | 227            | 143        | 227     | 0    |
| TOTAL     | 263            | 146        | 247     | 16   |

3.209

3.978

| ACRES | SPACE (THO |       | PROPERTY SQUARE FEE | Τ)     | COST (MILL | ION \$) |
|-------|------------|-------|---------------------|--------|------------|---------|
| 0     | LAR        | ADMIN | OTHER               | TOTAL  | REAL PROP  | EQUIP   |
|       | 46.110     | 2.559 | 6.190               | 54.859 | 0.000      | 1.795   |

SUPPORTS DECISION-MAKING BY THE ARMYS LEADERS AND MANAGERS THROUGH RESEARCH. DEVELOPMENT, TEST AND EVALUATION PROGRAMS IN PERSONNEL AND MANPOWER, TRAINING, TRAINING DEVICES AND SIMULATION, AND HUMAN FACTORS IN TRAINING AND OPERATIONAL SYSTEMS.

...CURRENT IMPORTANT PROGRAMS
CRITERIA FOR DETERMINING EFFECTIVE REFRESHER TRAINING SCHEDULING
ASSESS IMPACT OF ORGANIZATIONAL EFFECTIVENESS APPLICATIONS IN ARMY UNITS
INCORP OF ENGAGEMENT SIMULATION TRAINING TECHNOLOGY IN ARTEP 71-2
DESIGN OF TANK CREW GUNNERY TRAINER FOR XM1 TANK
COMPUTER EMBEDDED SQT FOR THE TACTICAL FIRE DIRECTION SYSTEM

\*\*\*FUNCTIONS/EQUIPMENT/CAPABILITIES
EIGHT CONUS FIFLD UNITS & ONE IN EUROPF, LIAISON OFFICES AT TRADOC,
FORSCOM, & IN LONDON SUPPORT IN-HOUSE RSCH PRGM MANAGED BY 2 LABS WITHIN
WHICH ARE 6 TECH AREAS, 1 PERS & MANPWR, 2 TRAINING, 3 LORSHIP & MNGMNT,
4 ENGAGEMENT SIMULATION, 5 EDUC TECH & SIMULA, 6 HUMAN FACTORS. CONUS
FIELD UNITS ARE AT FTS BENNING, BLISS, KNOX, SILL, HOOD, LEAVENWORTH,
RUCKER, & PRES OF MONTEREY. IN-HSE EXPERIMENTAL FACILITIES INCL LABORATORY AREA. ARMY-DWNED IN-HSE COMPUTERS PERMIT, WITHIN THE LABS, REAL TIME FXPERIMENTATION, GAMING, & SIMULATION. ADDITIONAL TERMINAL LINES TO
EXTERNAL COMPUTERS PROVIDE FLEXIBILITY. FXPER PROG PERMITS WIDE RANGE OF
LAB OPNS TO TEST HUMAN PERFORMANCE HYPOTHESES UNDER SIMULATED OPERATIONAL CONDITIONS, INCL A COMMAND POST IN SIMULATED TACTICAL SITUATIONS.

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NATICK . MA. INSTALLATION: RSCH INSTITUTE OF ENVIRONMENTAL MEDICINE

CDR.COL. HARRY F. DANGERFIELD

|                       | PROGRAM DATA BY FISCAL | YEAR (MILLION \$) |
|-----------------------|------------------------|-------------------|
| PROGRAM               |                        | (ACT + EST)       |
| TOTAL ROTEE           | 3.906                  | 3.878             |
| TOTAL PROCUREMENT     | 0.000                  | 0.000             |
| TOTAL DEM             | 0,000                  | 0.000             |
| TOTAL OTHER           | 1.299                  | 0.968             |
| TOTAL ANNUAL LAB      | 5.205                  | 4.846             |
| TOTAL INHOUSE         | 5.205                  | 4.846             |
| TOTAL INHOUSE ROTEE   | 3.906                  | 3.878             |
| ANNUAL OPERATING COST | 0.872                  | 0.888             |

|           | PERSONNE', DATA | (END OF F | Y 1978) |      |
|-----------|-----------------|-----------|---------|------|
| PERSONNEL | AUTHORIZED      | TOTAL     | TOTAL   | NON- |
|           | STRENGTH        | PHDS      | PROF    | PROF |
| MILITARY  | 84              | 5         | 43      | 41   |
| CIVILIAN  | 97              | 18        | 50      | 47   |
| TOTAL     | 181             | 23        | 93      | 88   |

| ACRES | SPACE (THO |        | PROPERTY SQUARE FE |         | COST (MILL | ION \$) |
|-------|------------|--------|--------------------|---------|------------|---------|
| 4     | LAB        | ADMIN  | OTHER              | TOTAL   | REAL PROP  | EQUIP   |
|       | 60.421     | 18.563 | 28.647             | 107.631 | 3.713      | 3.426   |

...MISSION

MISSION: TO CONDUCT BASIC & APPLIED RES TO DETERMINE THE EFFECTS OF HEAT COLD, HIGH TERRESTRIAL ALTITUDE & WORK UPON THE SCIDIERS LIFE PROCESSES, PERFORMANCE & HEALTH. CONDUCTS CONTINUING RESCH IN THE PHYSIOLOGICAL ASPECTS AND HEALTH EFFECTS OF PHYSICAL FITNESS TRAINING.

# ... CURRENT IMPORTANT PROGRAMS

EVALUATION OF ARMY PHY FITNESS TRAINING PROG & MOS FITNESS REQTS BIOLOGICAL PROCESSES THAT LIMIT HEAVY PHYSICAL WORK EFFECTS OF RAPID AIR TRANSLOCATION ON PHYSICAL FITNESS PREDICTION OF LIMITS OF MIL PERF AS OF FUNCT OF ENVMNT CLOTHING & EQUIP. PREVENTION &TREATMENT OF DISABILITIES DUE TO MIL OPERS IN EXTREME ENVMNT

#### ...FUNCTIONS/EQUIPMENT/CAPABILITIES

CONDUCT RSCH & PROVIDE GUIDANCE TO DESIGNERS, ENGRS, TACTICIANS PLANNERS & PHYSICIANS ON MIL PERFORMANCE & CASUALTY PREVENTION & TREATMENT IN EXTREME CLIMATES & ENGINEERED ENVIRONMENTS; ADVISE ON HEALTH & SAFETY IN MANEUVERS DURING HEAT, COLD OR HYPOXIC STRESS & RAPID AIR TRANSLOCATION. HUMAN & ANIMAL RSCH USE APPROX 50 VOLUNTEER TEST SUBJECTS.&CLIMATIC CHAMBERS OF USA NARADCOM. IN ADDITION. APPROX 1400 OTHER HUMAN TEST SUB-JECTS WERE UTILIZED AT VARIOUS LOCATIONS THROUGHOUT CONUS & EUROPE. THE MAJOR EQUIP & FACILITY CAPABILITIES OF THE LABORATORY INCLUDE, BUT ARE NOT LIMITED TO, MANY SM CHAMBERS, ANIMAL CARE FACILITIES, ELECTRON MICROS-COPE, UNDERWATER RSCH POOL, COPPER MANIKINS & DIVERSE EQUIP FOR BIOLOGICAL \*BIOPHYSICAL, MEDICAL, PHYSIOLOGICAL, PHARMACOLOGICAL & PSYCHOLOGICAL MEAS-UREMENT. THE INSTITUTE MAINTAINS A FIELD FAC AT PIKES PEAK, COLORADO.

to the contration of a substitute of the said substitute of the su

INSTALLATION: SIGNALS WARFARE LABORATORY

WINT HILL, VA.

DIR.MR.HERBERT S. HOVEY.JK.

|              | PRO        | GRAM DATA   | BY FISC  | AL YEAR (M) | LLIO | N \$)   |          |
|--------------|------------|-------------|----------|-------------|------|---------|----------|
| PROGRAM      |            | 197         | 78       | 1979        |      |         |          |
|              |            | LACTUA      | iL)      | (ACT + EST  | 1)   |         |          |
| TOTAL ROTEE  |            | 36          | •553     | 31.8        | 16   | •       |          |
| TOTAL PROCUR | EMENT      | 22          | -309     | 114.1       | 92   |         |          |
| TOTAL DAM    |            | 1           | 1.808    | 1.9         | 04   |         |          |
| TOTAL OTHER  |            | C           | -000     | 0.0         | 000  |         |          |
| TOTAL ANNUAL | LAB        | 60          | .670     | 147.9       | 12   |         |          |
| TOTAL INHOUS | E          | 4           | -089     | 4.1         | 30   |         |          |
| TOTAL INHOUS | E ROTEE    |             | 3.467    | 3.0         | 185  |         |          |
| ANNUAL OPERA | TING COST  | •           | .231     | 0.3         | 322  |         |          |
|              | PERSONNI   | L DATA (    | END OF F | Y 1978)     |      |         |          |
| PERSONNEL    | AUTHORIZED | 1           | TOTAL    | TOT         | IL   |         | NON-     |
|              | STRENGTH   |             | PHDS     | PRO         | F    |         | PROF     |
| MILITARY     | 69         |             | 0        | 14          | •    |         | 55       |
| CIVILIAN     | 163        |             | 5        | 51          | 7    |         | 106      |
| TOTAL        | 232        |             | 5        | 71          | l    |         | 161      |
|              |            | SPACE AND   | PROPERT  | ΓY          |      |         |          |
| ACRES        | SPACE (THO | JSANDS OF S | QUARE F  | FET)        | cos  | T (MILL | .ION \$) |
|              | LAB        | ADMIN       | OTHER    | TOTAL       | REAL | PROP    | EQUIP    |
| 1            | 46.000     | 8-000       | 38.000   | 92 4000     |      | 0.309   | 3.772    |

# ...MISSION

RESEARCH, DEVELOPMENT, EVALUATION, ACQUISITION AND PROD IMP OF SIGINT/EW SYSTEMS TO MEET STRAT AND TAC ROMTS TO SUPPORT: (1) EXPLOITATION OF ENEMY COMM/NON-COMM OPERATIONS. (2) DENIAL OF ENEMY USE OF COMM/NON-COMM SYS AND WEAPONS SYS. (3) DENIAL OF ELECT INFO TO ENEMY BY USE OF SIGSEC.

...CURRENT IMPORTANT PROGRAMS
EW- DEVELOPMENT/PRODUCTION OF AREA SUPPORT EW EQUIPMENT
SIGINT- DEVELOPMENT/PRODUCTION OF SIGINT EQUIPMENT
TECHNOLOGY- HIGH SPEED COMPUTERIZED SIGNAL PROCESSING AND ANALYSIS
COMM/NON-COMM TARGET LOCATION SYSTEMS
SIGSEC- COUNTERSIGINT-ELSEC

#### ...FUNCTIONS/EQUIPMENT/CAPABILITIES

MAJOR CAPABILITY CONSISTS OF THE IN-HOUSE EXPERTISE NECESSARY TO CONDUCT THE REQUIRED ROTE EFFORT TO INSURE SUCCESSFUL INTRODUCTION TO THE FIELD OF SOPHISTIGATED SIGINT/EW SYSTEMS. PERSONNEL EXPERIENCED NOT ONLY IN THE TECHNICAL AREAS OF ELECTRONICS AND COMPUTER SCIENCES BUT ALSO IN IN-TEGRATED LOGISTICS SUPPORT, PRODUCT ASSURANCE; RELIABILITY, AVAILABILITY, AND MAINTAINABILITY, ELECTROMAGNETIC COMPATIBILITY, COMPUTERIZED TEST EQUIPMENT, PRODUCTIOM SERVICES AND DOCUMENTATION REQUIREMENTS (BASIS OF ISSUE PLANS, QUAL, QUANT PERSONNEL REO INFO, ETC.) IS REQUIRED. THE SWL HAS A MAJOR IN-HOUSE SIGNALS ACQUISITION AND PROCESSING LABORATORY. FACILITIES INCLUDE ACCESS TO A VARIETY OF ANTENNAS, (INCLUDING LINEAR DISPOSED ANT ARAY) SIGNAL DISPLAY AND PROCESS EQUIPMENT, COMPUTERS AND A VARIETY OF RECEIVERS AND SIGNAL SEARCH EQUIPMENT.

CDR.MG.D.C. DECKER

CH.SCI.DR.E.N. PETRICK

|                       | PROGRAM DATA BY FISCA | L YEAR (MILLION S) |
|-----------------------|-----------------------|--------------------|
| PROGRAM               | 1978                  | 1979               |
|                       | (ACTUAL)              | (ACT + EST)        |
| TOTAL RDT&E           | 19.877                | 33.118             |
| TOTAL PROCUREMENT     | 113.864               | 132.243            |
| TOTAL DEM             | 3.982                 | 3.340              |
| TUTAL OTHER           | 0.000                 | 0.000              |
| TOTAL ANNUAL LAB      | 137.723               | 168.701            |
| TOTAL INHOUSE         | 16.039                | 17.852             |
| TOTAL INHOUSE ROTGE   | 7.781                 | 11.493             |
| ANNUAL OPERATING COST | 2.081                 | 1.576              |

|           | PERSONNEL DATA | (END OF F | Y 1978) |      |
|-----------|----------------|-----------|---------|------|
| PERSONNEL | AUTHORIZED     | TOTAL     | TOTAL   | NON- |
|           | STRENGTH       | PHDS      | PROF    | PROF |
| MILITARY  | 14             | 1         | 13      | 1    |
| CIVILIAN  | 271            | 7         | 157     | 114  |
| TOTAL     | 285            | 8         | 170     | 115  |

|       |            | SPACE AND | D PROPERTY |         |           |          |
|-------|------------|-----------|------------|---------|-----------|----------|
| ACRES | SPACE (THO | USANDS OF | SQUARE FEE | T)      | COST (MIL | LION \$) |
|       | LAR        | ADMIN     | OTHER      | TOTAL   | REAL PROP | EQUIP    |
| 11    | 140.319    | 99.974    | 0.000      | 240.293 | 38.294    | 125.000  |

...MISSION
RESPONSIBLE FOR ACCOMPLISHING DESIGN, DEVELOPMENT, ACQUISITION AND INITIAL DEPLOYMENT OF ASSIGNED WEAPON/EQUIP SYSTEMS. CONDUCT AND MANAGE RESEARCH, PERFORM PROCUREMENT AND QUALITY ASSURANCE THRU DEVFLOPMENT.PERFORM RELIABILITY—MAINTAINABILITY ASSESSMENT

...CURRENT IMPORTANT PROGRAMS
HOLOGRAPHIC INTERFEROMETRY TECHNIQUES TO TEST TANK-AUTO COMP
ACOUSTIC DETECTION OF HELICOPTER FROM BUTTONED-UP CMBT VEH
COUNTERMEASURES AGAINST INFRARED AND RADAR THREATS
TOTAL ANALYTICAL BALLISTIC PROCEDURE APPLIED TO CMBT VEH SYS
TANK SCIENCE AND TECHNOLOGY PLAN

\*\*\*FUNCTIONS/EQUIPMENT/CAPABILITIES

VEHICLE BRAKE DYNAMOMETER

VEHICLE SUBSYSTEM INTEGRATION

ANALYTICAL PREDICTION OF MILITARY VEHICLE PERFORMANCE

VEHICLE MOTION SIMULATOR

RIVER SIMULATOR FACILITY—LAND LOCOMOTION SOIL BINS

MINE PROTECTION

VEHICLE SIGNATURE PROGRAM

VEHICLE COMPONENT EVALUATION

SIX DEGREE OF FREEDOM SIMULATOR

METAL ANAL M/MICROPROBE ELECTRON MICROSCOPE ANALYZER AND TECHNIQUES

DEVELOPMENT OF IMPROVED ARMOR WELDING AND FABRICATION

LOW TEMPERATURE SHOCK AND VIBRATION TEST FACILITIES

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# INSTALLATION: TROPIC TEST CENTER

CDR.CUL.WENDELL L. PRICE

|                       | DDOCDAM DATA BY ST   | SCAL YEAR (MILLION S |             |
|-----------------------|----------------------|----------------------|-------------|
| PROGRAM               | 1978                 | 1979                 |             |
| PROGRAM               | (ACTUAL)             | (ACT + EST)          |             |
| TOTAL ROTGE           | 2.720                | 2.957                |             |
| TOTAL PROCUREMENT     | 0.026                | 0.001                |             |
| TOTAL DEM             | 0.097                | 0.000                |             |
| TOTAL OTHER           | 1.211                | 1.224                |             |
| TOTAL ANNUAL LAB      | 4.054                | 4.182                |             |
| TOTAL AUTORE ERD      | 10004                |                      |             |
| TOTAL INHOUSE         | 3.788                | 4.015                |             |
| TOTAL INHOUSE ROTEE   | 2.555                | 2.790                |             |
| ANNUAL OPERATING COST | 0.400                | 0.400                |             |
| pro                   | SONNEL DATA (END OF  | FY 1978)             |             |
| PERSONNEL AUTHOR      |                      | TOTAL                | NON-        |
|                       | NGTH PHDS            | PROF                 | PROF        |
| MILITARY              | 80 0                 | 15                   | 65          |
| CIVILIAN              | 62 3                 | 13                   | 49          |
| TOTAL                 | 142 3                | 28                   | 114         |
|                       |                      | <b>-</b> +           |             |
|                       | SPACE AND PROPE      | RTY                  |             |
| ACRES SPACE           | (THOUSANDS OF SQUARE |                      | HILLION \$) |
| LA                    |                      | •                    |             |
| 17500 17.7            |                      |                      |             |

### ...MISSION

PLAN. CONDUCT AND REPORT ON ENVIRONMENTAL PHASES OF DEVELOPMENT TEST II, AND OTHER DEVELOPMENTAL TYPE TESTS. PROVIDE ADVICE AND GUIDANCE ON TESTS AND EVALUATION MATTERS TO MATERIEL DEVELOPERS, MATERIEL PRODUCERS, OTHER SERVICES, AND PRIVATE INDUSTRY.

... CURRENT IMPORTANT PROGRAMS SURFACE LAUNCHED UNIT FUEL AIR EXPLOSIVE (SLUFAE) RLACKHAWK FAMILY ENGINEER CONSTRUCTION EQUIP (FAMECE) PSYCHO-PHYSICAL MEASUREMENT TECHNIQUES (ILIR) TEST METHODOLOGY AND R AND D INSTRUMENTATION PROGRAMS

# ...FUNCTIONS/EQUIPMENT/CAPABILITIES

TEST FACILITIES AND LABORATORIES WITH INSTRUMENTS AND EQUIPMENT FOR CON-DUCTING TROPIC TESTS OF DOD MATERIEL IN THE NATURAL ENVIRONMENT INCLUDE ELECTRONICS, HUMAN FACTORS, CHEMICAL, MICROBIOLOGICAL, MATERIALS, SOILS, CALI-BRATION.AUDIO-VISUAL AND DATA ANALYSIS LABORATORIES. OTHER TEST RESOURCES CONSIST OF FIRING RANGES, NATURAL TERRAIN MOBILITY COURSES, AMMO TEST STORAGE AND FUNCTIONING AREAS, JUNGLE, GRASS AND COASTAL MATERIEL EXPOSURE SITES.JUNGLE RADIO RANGING SITES.POL TANK FARM, MAN-PACK PORTABILITY COURSE, CALIBRATED SEISMIC DETECTION AND CHEMICAL TEST GRIDS AND 18,000 ACRES OF BROADLEAF EVERGREEN TREFS, SEMIDECIDUOS TREES, MARSHLAND, GRASSLAND, CORAL REEFS, FLAT AND HILLY TERRAIN AND ALL TYPES OF TROPIC VEGETATION.

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INSTALLATION: WALTER REED ARMY INSTITUTE OF RESEARCH

WASHINGTON.D.C.

262

CDR.COL. GARRISON RAPMUND

ASSOC.DIR.DR. HOWARD NOYES

| PROGRAM | DATA BY | FISCAL | YEAR | (MATTION | <b>5</b> } |
|---------|---------|--------|------|----------|------------|
|         | 1978    |        | 19   | 79       |            |

| PROGRAM               | 1978     | 1979        |
|-----------------------|----------|-------------|
|                       | (ACTUAL) | (ACT + FST) |
| TOTAL RDT&E           | 36.068   | 33.783      |
| TOTAL PROCUREMENT     | 0.000    | 0.000       |
| TOTAL DAM             | î.517    | 1.651       |
| TOTAL OTHER           | 7.007    | 7.157       |
| TOTAL ANNUAL LAB      | 44.592   | 42.591      |
| TOTAL INHOUSE         | 30.124   | 28.928      |
| TOTAL INHOUSE ROTEF   | 21.600   | 20.120      |
| ANNUAL OPERATING COST | 6.166    | 7.004       |

|           | PERSONNEL DATA | (END OF FY | 1976) |      |
|-----------|----------------|------------|-------|------|
| PERSONNEL | AUTHORIZED     | TOTAL      | TOTAL | NON- |
|           | STRENGTH       | PHDS       | PROF  | PROF |
| 4ILITARY  | 466            | 123        | 438   | 28   |
| CIVILIAN  | 445            | 58         | 211   | 234  |

#### SPACE AND PROPERTY

| ACRES | SPACE (THO | SUSANDS OF | SQUARE FE | ET)     | COST (MILL | . ION \$) |
|-------|------------|------------|-----------|---------|------------|-----------|
|       | LAB        | ADMIN      | OTHER     | TOTAL   | REAL PROP  | EQUIP     |
| 203   | 382.974    | 58.360     | 0.000     | 441.334 | 10.040     | 15.187    |

181

649

#### ...MISSION

TOTAL

MAJOR FUNCTIONS ARE BIOMEDICAL RESEARCH POSTGRADUTATE MEDICAL SCIENCE INSTRUNCTION AND MEDICAL REFERENCE LABORATORY SERVICES. RESEARCH AREAS OF MAJOR INTEREST ARE PREV MEDICINE, INFECTIOUS DISEASES, COMBAT SURGERY INTERNAL MEDICINE, MEDICINE, BIO CHEMISTRY, AND NEUROPSYCHIATRY.

...CURRENT IMPORTANT PROGRAMS
BASIC RESEARCH ON MILITARY DISEASES
MILITARY PREVENTIVE MEDICINE AND TROPICAL DISEASES
DRUG AND VACCINE DEVELOPMENT
MILITARY PEFORMANCE
MICROWAVE HAZARDS

911

...FUNCTIONS/EQUIPMENT/CAPABILITIES
SOPHISTICATED EQUIPMENT, INCLUDES ELECTRON MICROSCOPES, MASOSPECTROMETER
PHYSICAL AND CHEMICAL ANALYTICAL EQUIPMENT, MICROWAVE EXPOSURE SYSTEMS
AND BEHAVIORAL RESEARCH INSTRUMENTATION. ADDITIONAL LABORATORY
FACILITIES ARE LOCATED IN THAILAND, MALAYSIA, KENYA, BRAZIL, GERMANY,
FOREST GLEN, MD. AND FORT DETRICK, MD.

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INSTALLATION: WHITE SANDS MISSILE RANGE

K ITE SANDS.N.M.

CDR.MG. DRVILLE L. TOBIASON TECH.DIR.DR. RICHARD H. DUNCAN

|                       | PROGRAM DATA BY FISCAL | YEAR (MILLION \$) |
|-----------------------|------------------------|-------------------|
| PROCRAM               | 1978                   | 1979              |
|                       | (ACTUAL) (             | ACT + EST)        |
| TOTAL ROTGE           | 123.322                | 125.923           |
| TOTAL PROCUREMENT     | 7.940                  | 5.747             |
| TOTAL OAM             | 4.700                  | 4.716             |
| TOTAL OTHER           | 3.231                  | 3.288             |
| TOTAL ANNUAL LAB      | 139.193                | 139.674           |
| TOTAL INHOUSE         | 137.939                | 138.546           |
| TOTAL INHOUSE ROTEE   | 122.097                | 124.924           |
| ANNUAL OPERATING COST | 33.150                 | 35.808            |

|           | PERSUMNLE DATA | TENU OF F | 1 17/81 |      |
|-----------|----------------|-----------|---------|------|
| PERSONNEL | AUTHORIZEO     | TOTAL     | TOTAL   | NON- |
|           | STRENGTH       | PHDS      | PROF    | PRUF |
| MILITARY  | 930            | 4         | 472     | 458  |
| CIVILIAN  | 2759           | 45        | 1035    | 1724 |
| TOTAL     | 3689           | 49        | 1507    | 2102 |

|         |           | SPACE AN   | ND PROPERTY | <b>Y</b> |           |          |
|---------|-----------|------------|-------------|----------|-----------|----------|
| ACRES   | SPACE (IH | DUSANDS OF | F SQUARE FI | FETI     | COST INIL | LION \$) |
|         | LAB       | ADMIN      | OTHER       | TOTAL    | REAL PROP | EQUIP    |
| 4214377 | 1422.826  | 440.747    | 3020.680    | 4884.253 | 183.676   | 199,573  |

#### ...MISSYON

MISSION-OPERATE A NATIONAL MISSILE RANGE FOR SUPPORT OF ALL APPROVED MISSILE AND RELATED TEST PROGRAMS. INDEPENDENTLY TEST AND EVALUATE ARMY MISSILE AND ROCKET SYSTEMS. ENGINEER AND DEVELOP RANGE INSTRUMENTATION SYSTEMS FOR GATHERING TEST DATA.

...CURRENT IMPORTANT PROGRAMS
TESTING OF DRONE FORMATION CONTROL SYSTEM FOR MULTIPLE ENGAGEMENT AIR
DEFENSE. LASER TEST FACILITY INSTRUMENTATION.
REAL-TIME VIDEOTHEODOLITE DEVELOPMENT.
DISTANT OBJECT ATTITUDE MEASUREMENT SYSTEM.
TARGET MOTION RESOLUTION PROCESSING TECHNIQUES.

... FUNCTIONS/EQUIP EMT/CAPABILITIES

GROUND AND FLIGHT SAFFTY. OBTAINING FLIGHT TRAJECTORY AND EVENT DATA. RECOVERING MISSILES OR PORTIONS THEREOF. REDUCING AND PUTTING INTO READABLE FORMS DATA COLLECTED BY RANGE INSTRUMENTS. ENGINEERING AND DEVELOPMENT OF RANGE INSTRUMENTATION. INDEPTNDENTLY TEST AND EVALUATE ARMY WEAPONS SYSTEMS.

EVALUATE GUIDANCE AND CONTROM SYSTEMS, STRUCTURAL INTEGRITY, PROPULSION SYSTEMS, FLECTROMAGNETIC RACHATION EFFECTS. ANALYSIS OF CHEMICAL AND METALLOGRAPHIC EFFECTS, MICROBIOLOGICAL FFFECTS, CLIMATIC ENVIRONMENTAL EFFECTS. TEST AND EVALUATE WARHEADS AND SPECIAL WEAPONS. WEAPONS SIMULATION. NUCLEAR EFFECTS TESTING. SOLAR FURNACE. COUNTER-COUNTER MEASURES TESTING. ELECTRONIC AND OPTICAL TRACKING SENSORS AND DATA TRANSMISSION REQUIRED TO PROVIDE TEST DATA ON MISSILES AND RELATED PROGRAMS.

CDR.COL. JAMES M. DAVIS, JR. TECH.DIR. RICHARD H. MILLER

|                       | PROGRAM DATA BY FISH | CAL YEAR IMPLLION \$1 |
|-----------------------|----------------------|-----------------------|
| PROGRAM               | 1978                 | 1979                  |
|                       | (ACTUAL)             | (ACT + EST)           |
| TOTAL ROTGE           | 24.245               | 27.008                |
| FOTAL PROCUREMENT     | 1.150                | 0.990                 |
| MAG JATGT             | 0.267                | 0.539                 |
| TOTAL OTHER           | 4.838                | 4.957                 |
| TOTAL ANNUAL LAB      | 30.500               | 33.494                |
| TOTAL INHOUSE         | 30.500               | 33.494                |
| TOTAL INHOUSE ROTEF   | 24.245               | 27.008                |
| ANNUAL OPERATING COST | 8.597                | 5.592                 |

|           | PERSONNEL DATA | (END OF FY | 1978) |      |
|-----------|----------------|------------|-------|------|
| PERSONNEL | AUTHORIZED     | TOTAL      | TOTAL | NON- |
|           | STRENGTH       | PHDS       | PROF  | PROF |
| MILITARY  | 378            | 1          | 53    | 325  |
| CIVILIAN  | 574            | 0          | 84    | 490  |
| TOTAL     | 952            | 1          | 137   | 815  |

|        |           | SPACE AF   | VD PROPERTY | Υ        |            |          |
|--------|-----------|------------|-------------|----------|------------|----------|
| ACRES  | SPACE (Th | OUSANDS OF | F SQUARE FI | EET)     | COST (MILI | LION \$) |
|        | LAB       | ADMIN      | GTHER       | TOTAL    | REAL PROP  | EQUIP    |
| 870309 | 0.832     | 112.690    | 1294.613    | 1408.135 | 47.288     | 76.584   |

...MISSION
PLAN, CONDUCT, SPT ET AIR DEL EQUIP, L-RNGE TUBE ARTY, ACRET MPNS SYS, NOB
EQUIP. PLAN, CONDUCT, RPT DESERT ENV TEST. SPT ARCTIC ENV TESTS. PROVIDE
TEST, EVAL ADVICE, GUIDANCE TO PROSPECTIVE FACILITY USERS. DEVELOP, MAINT
MASTER PLAN FOR INST, FACIL, METHOD, TECH TEST EXPERTISE.

...CURRENT IMPORTANT PROGRAMS
GLOBAL POSITIOMING SYSTEM
PROJECTILE 8-INCH XM753
TANK COMBAT XM1
ENHANCED COBRA ARMAMENT PROGRAM
SURFACE LAUNCHED UNIT FUEL AIR EXPLOSIVE

\*\*\*FUNCTIONS/EQUIPMENT/CAPABILITIES
INSTRUMENTED ARTILLERY RANGE
VEHICLE MOBILITY TEST RANGES AND F CYLITY
INSTRUMENTED AIRCRAFT ARMAMENT RANGE
REAL TIME CINETHEODOLITE SYSTEM
LASER RANGE TRACKER
POSITION LOCATING DATA COMMUNICATION SYSTEM
INSTRUMENTED DROP ZONES
ENGINEERING TEST FACILITY
INSTRUMENTATION CALIBRATION FACILITY
SCIENTIFIC COMPUTER CENTER
ENVIRONMENTAL TEST FACILITIES
WEAPONS EVALUATION FACILITY

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PENSACOLA.FL.

INSTALLATION: AEROSPACE MEDICAL RESEARCH LABORATORY

C.O.CAPT.R.E. MITCHELL

TECH.ADV.DR.A GRAYBIEL

|               | PROGR      | AM DATA BY FIS | CAL YEAR (MILLION | \$7  |
|---------------|------------|----------------|-------------------|------|
| PROGRAM       |            | 1978           | 1979              |      |
|               |            | (ACTUAL)       | (ACT + EST)       |      |
| TOTAL ROTEE   |            | 4.876          | 4.958             |      |
| TOTAL PROCURE | MENT       | 0.000          | 0.000             |      |
| FOTAL DEM     |            | 0.108          | 0.147             |      |
| OTAL OTHER    |            | 0~858          | 0.858             |      |
| TOTAL ANNUAL  | LAB        | 5.842          | 5.963             |      |
| TOTAL INHOUSE | •          | 5.461          | 5.525             |      |
| TOTAL INHOUSE | RDTEF      | 4.495          | 4.520             |      |
| NNUAL OPERAT  | TING COST  | 0.911          | 0.973             |      |
|               | PERSONNEL  | DATA (END OF   | FY 1978)          |      |
| ERSONNEL      | AUTHORIZED | TCITAL         | TOTAL             | NON- |
|               | STRENGTH   | PHDS           | PROF              | PROF |
| ILITARY       | 68         | 17             | 22                | 46   |
| IVILIAN       | 134        | 19             | 43                | 91   |
| TOTAL         | 202        | 36             | 65                | 137  |

| ı     |            | SPACE AN  | PROPERTY  |         |            |           |
|-------|------------|-----------|-----------|---------|------------|-----------|
| ACRES | SPACE (THO | USANDS OF | SQUARE FE | ET)     | COST (MILL | ION \$ \$ |
|       | LAB        | ADMIN     | OTHER     | TOTAL   | REAL PROP  | EQUIP     |
| 6     | 167.657    | 8.800     | 11.680    | 188.137 | 3.130      | 3.583     |

...MISSION
CONDUCT RESEARCH DEVELOPMENT TEST AND EVALUATION IN AFROSPACE MEDICINE
AND RELATED SCIENTIFIC AREAS APPLICABLE TO AFROSPACE SYSTEMS

...CURRENT IMPORTANT PROGRAMS
PHYSIOLOGICAL AND REHAVIORAL EFFECTS OF NONIONIZING RADIATION
HUMAN DYNAMIC RESPONSE TO IMPACT ACCELERATION AND VIBRATION
AVIATION PERSONNEL PROCUREMENT SELECTION AND RETENTION
CREW PERFORMANCE IN NAVAL MOTION ENVIRONMENTS
AVIATION VISUAL PERFORMANCE REQUIREMENTS AND CAPABILITIES

...FUNCTIONS/EQUIPMENT/CAPABILITIES
MICROMAVE AND FXTREMELY LOW FREQUENCY NONIONIZING RADIATION FACILITY.
SLOW ROTATION ROOM. CORIOLIS ACCELERATION PLATFORM. HUMAN DISORIENTATION DEVICE. STILL-WERNER CHAIR. OFF VERTICAL ROTATING CHAIR. ANACHUIC AND REVERBERANT CHAMBERS. AUTOMATED PULMONARY FUNCTION. TREADMILL. VECTOR AND ECHOCARDIOGRAPH. THERMOGRAPHIC IMAGING SYSTEM. 3D BINOCULAR EYE—TRACKER AND VISUAL STIMULATOR. ELECTRON MICROSCOPE. IMPACT FACILITY MEGA N THRUST ACCELERATOR. 213 M ENVIRONMENTALLY ENCLOSED TRACK. 178K N THRUST VERTICAL ACCELERATOR. X-RAY CINEMATOGRAPHY. ELECTRODYNAMIC MOTION EXCITORS. C210 SHAKER. SHIP MOTION GENERATOR. 22 CHANNEL INERTIAL DATA ACQUISITION SYSTEM. HIGH SPEED CAMERAS. VIVARIUM WITH OPERATING SUITE. EQUIPPED FOR HUMAN AND ANIMAL EXPERIMENTS IN UNUSUAL FORCE ATMOS PHERIC ACOUSTICAL ELECTROMAGNETIC ENVIRONMENTS.

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INSTALLATION: AIR DEVELOPMENT CENTER JOHNSVILLE, PA.

C.O. CAPT.C. RIGGBEE

TECH-DAY . DR . R . K . LOBB

|                       | PROGRAM DATA BY FISCA | L YEAR (MILLION \$) |
|-----------------------|-----------------------|---------------------|
| PROGRAM               | 1978                  | 1979                |
| •                     | (ACTUAL)              | (ACT + EST)         |
| TOTAL ROTGE           | 138.964               | 126.866             |
| TOTAL PROLUREMENT     | 48.192                | 66.598              |
| TOTAL DEM             | 15.001                | 18.459              |
| TOTAL OTHER           | 19.629                | 13.527              |
| TOTAL ANNUAL LAB      | 221.786               | 225.450             |
| TOTAL INHOUSE         | 106.461               | 83.678              |
| TOTAL INHOUSE RDT&F   | 67.944                | 52.371              |
| ANNUAL OPERATING COST | 28.629                | 31.442              |
|                       |                       |                     |

|           | PERSONNEL DATA | (END OF FY | ' 1978) |      |
|-----------|----------------|------------|---------|------|
| PERSONNEL | AUTHORIZED     | TOTAL      | TOTAL   | NON- |
|           | STRENGTH       | PHDS       | PROF    | PROF |
| MILITARY  | 290            | 6          | 76      | 214  |
| CIVILIAN  | 2172           | 28         | 1094    | 1078 |
| TOTAL     | 2462           | 34         | 1170    | 1292 |

|       |           | SPACE AN    | D PROPERT | Y        |           |          |
|-------|-----------|-------------|-----------|----------|-----------|----------|
| ACRES | SPACE (TI | IOUSANDS OF | SQUARE F  | EET)     | COST (MIL | LION \$) |
|       | LAB       | ADMIN       | OTHER     | TOTAL    | REAL PROP | EQUIP    |
| 831   | 825.433   | 82.888      | 654.549   | 1562-870 | 32.958    | 41.758   |

...MISSION
TO BE THE PRINCIPAL NAVY ROTGE CENTER FOR NAVAL AIRCRAFT SYSTEMS
LESS AIRCRAFT LAUNCHED WEAPON SYSTEMS

...CURRENT IMPORTANT PROGRAMS
TACTICAL SUPPORT CENTER
S-3A,F-14,F-18,VP PROGRAM
LIGHT AIRBORNE MULTI-PURPOSE SYSTEMS
V/STOL
J-TIDS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
AIRCRAFT SYSTEMS SIMULATION, AIRBORNE SEARCH & RESCUE, INERTIAL
NAVIGATION TECHNOLOGY, AIR VEHICLE TECHNOLOGY STRUCTURES, MATERIALS,
FLIGHT D'MAMICS, PERFORMANCE, FLIGHT CONTROL, AIRBORNE ASW SYSTEMS.
DEVELOP & INTEGRATION OF AIRBORNE SYSTEMS INCLUDING ELECTRONIC
SURVEILLANCE & COUNTER MEASURES, COMMUNICATIONS, NAVIGATION INFORMATION
PROCESSING & DISPLAY, ENVIRONMENTAL SENSING, ELECTROMAGNETIC/MAGNETIC,
ACOUSTIC, ELECTRO-OPTIC, & PHOTOGRAPHIC, A/C SUPPORT SYSTEMS, A/C COST
METHODOLOGY AND LOGISTICS, AEROSPACE MEDICINE AND AVIATION PHYSIOLOGY
AND SUPPORT TO OTHER ACTIVITIES AS DIRECTED

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LAKEHURST.N.J.

#### INSTALLATION: AIR ENGINEERING CEMTER

C. O. CAPT. J. H. HOGANSON TECH. DIR. MR. W. J. COX

|               | PROGRAM (          | DATA BY FISC | AL YEAR IMILLION | \$1          |
|---------------|--------------------|--------------|------------------|--------------|
| PROGRAM       | •                  | 1978         | 1979             |              |
|               | (,                 | ACTUALI      | (ACT + EST)      |              |
| TOTAL ROTGE   |                    | 16.857       | 0.000            |              |
| TOTAL PROCURE | MENT               | 29.889       | 0.000            |              |
| M3O JATOT     |                    | 20.251       | 0.000            |              |
| TOTAL OTHER   |                    | 11.551       | 0.000            |              |
| TOTAL ANNUAL  | LAB                | 78.548       | 0.000            |              |
| TOTAL INHOUSE |                    | 57.179       | 0.000            |              |
| TOTAL INHOUSE | RDT&E              | 10.544       | 0.000            |              |
| ANNUAL OPERAT | TING COST          | 6.700        | 0.000            |              |
|               | PERSONNEL DAT      | A (END OF F  | Y 19 <b>78</b> ) |              |
| PERSONNEL     | <b>AUTHOR TZED</b> | TOTAL        | TOTAL            | NON-         |
|               | STRENGTH           | PHOS         | PRDF             | PROF         |
| MILITARY      | 284                | 0            | 34               | 250          |
| CIVILIAN      | 1893               | 3            | 442              | 1451         |
| TOTAL         | 2177               | 3            | 476              | 1701         |
|               | SPACE              | AND PROPERT  | Y                |              |
| ACRES         | SPACE (THOUSANDS   | OF SQUARE F  | EET) COST        | (MILLION \$) |
|               | LAB ADMI           |              | TOTAL REAL F     |              |

#### ...MISSION

7377

CNDCT RSRCH, ENGR, DEV, DEV T&E, SYS INTGRTN, LTD PROD, PROC & FLET ENGR SUPRT IN: A/C LAUMCHG, RCVRY & LNDG AID SYS & GRND SUPRT EQIP FOR A/C & A/BRN WPNS SYS. PRVD, OPER & MATN SITES FOR TESTS OF ABV EQIP. SUPRT DOD STD & SPECS PRGMS. OPER AVIA FACILITIES AS DESGNTED BY APPRO AUTH.

2816.975

96.255

20.413

467.945 204.247 2144.783

...CURRENT IMPORTANT PROGRAMS
RECOVERY SYSTEM FOR HELICOPTERS ABOARD SHIP (RAST)
TRIBOLOGY (STUDY OF WEAR) TECHNOLOGY BASE PROGRAM
AUTOMATIC TEST EQUIPMENT FOR AVIONICS SUPPORT AND AVIONICS READINESS
MARK 14 RECOVERY SYSTEM
HELD RECOVERY ASSIST. SECURE AND TRAVERSING (RAST) ABOARD SHIP TEST

### ...FUNCTIONS/EQUIPMENT/CAPABILITIES

TEST CATAPULTS, ARRESTING GEAR AND SLED TRACKS FOR SYSTEM AND COMPONENT TESTS. INSTRUMENTATION AND DATA PROCESSING. HELD AND VTOL RECOVERY TEST SITES. VLA TEST SITES. MOCKUP OF AIR LAUNCHED WEAPONS HANDLING AND STOWAGE FACILITIES ON AIRCRAFT CARRIERS. AIRCRAFT CARRIER OPERATIONAL ANALYSIS ROOM FOR STUDYING SPOTTING AND SERVICING CAPABILITIES ON FLIGHT AND HANGAR DECKS. MACHINE SHOP WITH CONVENTIONAL AND AUTOMATED MACHINE TOOLS CAPABLE OF PROTOTYPE AND LIMITED PRODUCTION. VACUUM FURNACE FOR HEAT TREATING. ELECTRON BEAM WELDER. CRYOGENICS FACILITY. RAPID LOAD TEST MACHINE. TRIBOLOGY (STUDY OF WEAR) LABORATORY. NOISE MEASUREMENT LAB. ULTRASONIC CLEANING LAB. AVIONICS SUPPORT FACILITY. ELECTRIC POWER AND ELECTRONIC SUPPORT FACILITY. NONDESTRUCTIVE EVALUATION LAB. AUTOMATIC TEST EQUIPMENT SOFTWARE FACILITY.

INSTALLATION: AIR PROPULSION CENTER

TRENTON.N.J.

C.O.CAPT.B.T. ALLIGOOD.JR.

TECH.CON.MR.B.T. MCWILLIAMS

|                       | PROGRAM DATA BY FISCAL | YEAR (MILLION \$) |
|-----------------------|------------------------|-------------------|
| PROGRAM               | 1978                   | 1979              |
|                       | (ACTUAL)               | ACT + FST)        |
| TOTAL ROTEE           | 23.045                 | 30.021            |
| TOTAL PROCUREMENT     | 2.078                  | 4.573             |
| TOTAL OEM             | 0.256                  | 0.040             |
| TOTAL OTHER           | 0.807                  | 1.539             |
| TOTAL ANNUAL LAB      | 26.186                 | 36.173            |
| TOTAL INHOUSE         | 19.541                 | 26.379            |
| TOTAL INHOUSE ROTEF   | 16.809                 | 21.688            |
| ANNUAL OPERATING COST | 4.518                  | 6.431             |
| DER CI                | WHEL DATA LEND DE EV   | 1078)             |

|           | PERSONNEL DATA | TEND OF FY | Y 1978) |      |
|-----------|----------------|------------|---------|------|
| PERSONNEL | AUTHORIZED     | TOTAL      | TOTAL   | NON- |
|           | STRENGTH       | PHOS       | PROF    | PROF |
| MILITARY  | 8              | 0          | 8       | 0    |
| CIVILIAN  | 594            | 0          | 155     | 439  |
| TOTAL     | 602            | 0          | 163     | 439  |

| ACRES | SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET) |        |         | COST (MILLION \$) |           |        |
|-------|-----------------------------------------------------|--------|---------|-------------------|-----------|--------|
| 68    | LAB                                                 | ADMIN  | OTHER   | TOTAL             | REAL PROP | EQUIP  |
|       | 376.704                                             | 37.973 | 211.766 | 626.443           | 50.820    | 11,993 |

# ...MISSION

PROVIDE NAVAIR & FLEET COMPLETE TECHNICAL & ENGINEERING SUPPORT FOR AIR-BREATHING PROPULSION SYSTEMS: ACCESSORIES, COMPONENTS AND FUELS & LUBES. MANAGE AND PERFORM APPLIED R&D ON NEW PROPULSION SYSTEMS. EVALUATE NEW SYSTEMS BY T&E ASSURE MISSION ACCOMPLISHMENT AND SOLVE FLEET PROBLEMS.

---CURRENT IMPORTANT PROGRAMS
CRUISE MISSILF ENGINE F107 DEVELOPMENT & QUALIFICATION TESTING
F404-GE-400 ENGINE DEVELOPMENT & QUALIFICATION TESTING
UH-1N AIRCRAFT TRANSMISSION FAILURE INVESTIGATION
TF30-P-414A ENGINE 1000-HOUR MISSION ENDURANCE FOR F-14A AIRCRAFT
PETROLEUM & SYNTHETIC AIRCRAFT ENGINE FUEL DEVELOPMENT & TESTING

# ...FUNCTIONS/EQUIPMENT/CAPABILITIES

THREE LARGE ALTITUDE CELLS, TWO LARGE SEA LEVEL CELLS AND FOUR SMALL ALTITUDE CELLS PROVIDE ENVIRONMENTAL AND FLIGHT SIMULATION CAPABILITY OF SEA LEVEL TO 100000 FEET; MINUS 65 TO PLUS 650 DEGREES F, FLIGHT SPEEDS FROM ZERO TO MACH 3 TO TEST TURBOJET/FAN AND TURBOPROP/SHAFT FNGINES. SEVEN TEST ROOMS TEST STARTERS, ACCESSORIES AND AUXILIARY POWER UNITS. EIGHT TEST ROOMS AND CHEMISTRY LAB USED FOR R&D ON FUELS, LUBES AND BEARINGS. SPECIAL TEST FACILITIES ARE ROTOR SPIN FACILITY, HELICOPTER TRANSMISSION STAND, GYRO RIG, ENGINE TURNTABLE AND DEMISTER TEST CELL. FACILITIES ARE USED FOR R&D ON ADVANCED FUELS AND LUBRICATING OILS, OILWETTED ENGINE COMPONENTS, AIR POLLUTION, LOW CYCLE FATIGUE, CONTAINMENT, NOISE AND I/R PROGRAMS. NAPC QUALS OILS, MANAGES NAVY EXPLORATORY AND ADV DEVEL PRGMS, PROVIDES ADNN & TECH DIR TO SELECTED NAVAIR CONTRACTS.

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PATUXENT RIVER, MD.

#### INSTALLATION: AIR TEST CENTER

C.O.RADN.J.H.FOXGROVER

TECH-DIR-MR-J-B. PARADIS

|               | PROGRAM         | DATA BY FIS  | CAL YEAR (MILLION | \$)          |
|---------------|-----------------|--------------|-------------------|--------------|
| PROGRAM       |                 | 1978         | 1979              |              |
|               |                 | (ACTUAL)     | (ACT + EST)       |              |
| TOTAL ROTGE   |                 | 64.080       | 79.746            |              |
| TOTAL PROCURE | MENT            | 16.290       | 15.408            |              |
| TOTAL DEM     |                 | 8.321        | 14.468            |              |
| TOTAL OTHER   |                 | 26.155       | 22.273            |              |
| TOTAL ANNUAL  | LAB             | 114.846      | 131.895           |              |
| TOTAL INHOUSE | ξ               | 95.104       | 102.869           |              |
| TOTAL INHOUSE | RDTEE           | 51.379       | 62.445            |              |
| ANNUAL OPERAT | FING COST       | 47.983       | 56.312            |              |
|               | PERSONNEL DA    | TA (END OF   | FY 19781          |              |
| PERSONNEL     | AUTHORIZED      | TOTAL        | TOTAL             | NON-         |
|               | STRENGTH        | PHDS         | PROF              | PROF         |
| MILITARY      | 1455            | 3            | 295               | 1160         |
| CIVILIAN      | 2114 .          | 7            | 455               | 1659         |
| TOTAL         | 3569            | 10           | 750               | 2819         |
|               | SPAC            | E AND PROPER | TY                |              |
| ACRES         | SPACE (THOUSAND | S OF SQUARE  | FFET) COST        | (MILLIUN \$) |
|               | LAB ADN         | IIN OTHER    | TOTAL REAL P      | ROP EQUIP    |
| 6638          | 15.125 363.4    | 00 4560.589  | 4939.114 159.     | 868 22.489   |

#### ...MISSION

CONDUCT TECH EVALS & BIS TRIALS, TRAIN TEST PILOTS, TEST & EVALUATE TOTAL A/C, THEIR MISSION SYSTEMS & ALL SUBSYSTEMS & COMPONENTS, RELATED SUPPORT SYSTEMS & ILS. PROVIDE TECHNICAL ADVICE & ASSISTANCE TO NASC & OTHERS TO TRAIN TEST PILOTS & TO DEVELOP A/C TESTING TECHNOLOGY.

# ...CURRENT IMPORTANT PROGRAMS

PRINCIP SITE FOR T & E OF A/C&THEIR SYSMS F14,F18,A4,A6,A7EA6,AV8,LAMPS, P3,EP3F,E2,EC130,AH1,UH1,CH46,CH53,SH2,SH3 PLUS THEIR ASSOCIATED SIMULATORS.GROUND SUPPORT EQUIP,A/C COMPUTERS&SOFTWARE,RELIABILITY&MAINTAIN—ABILITY,HUMAN FACTORS,ELECTRONIC WARFARE CAPABILITIES,ELECTROMAGNETIC COMPATIBILITY,CARRIER SUIT,ACLS MLS A/C CARRIER&AIRFLD CERTIFICATIONS.

# ...FUNCTIONS/EQUIPMENT/CAPABILITIES

LARGE RESTRICTED AIRSPACE, REAL-TIME RANGE & AIRCRAFT TEST DATA PROCESSING CATAPULT & ARRESTING GEARS, ACLS SITES, ELECTROMAGNETIC SHIELDED HANGAR, GUN FIRING TUNNELS, ENVIRONMENTAL TESTING FACILITIES, ELECTRICAL POWER AND CONTROL TESTING LABS, INSTRUMENTED SONOBUOY RANGE, ASW SYSTEMS LABS, BIOMEDICAL & HUMAN FACTORS LABS, EXTENSIVE INSTRUMENTATION DESIGN & CONSTRUCTION FACILITIES, COMPUTER & SOFTWARE THE LABS, WATER EDGE LOW ELECTROMAGNETIC NOISE TEST AREA, ELECTRO-OPTICAL TARGETS & TEST RANGE, ENGINE TEST CELL & THRUST STAND, BROADBAND EW TEST RANGE, VSTOL TEST SITE, SURFACE EFFECT SHIP TEST FACILITY.

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INSTALLATION: ARCTIC RESEARCH LABORATORY

BARROW.AK.

# C.O. LCDR. MICHAEL BROWN

|                 | PROGRAM       | DATA BY FISC | CAL YEAR (MILLION | \$)  |
|-----------------|---------------|--------------|-------------------|------|
| PROGRAM         |               | 1978         | 1979              |      |
|                 |               | ACTUAL)      | (ACT + FST)       |      |
| TOTAL ROTEE     |               | 8.828        | 9.360             |      |
| TOTAL PROCUREME | NT            | 0.000        | 0.000             |      |
| TOTAL DEM       |               | 0.050        | 0.060             |      |
| TOTAL OTHER     |               | 1.691        | 1.233             |      |
| TOTAL ANNUAL LA | <b>.</b> B    | 10.569       | 10.653            |      |
|                 |               |              |                   |      |
| TOTAL INHOUSE   |               | 0.055        | 0.056             |      |
| TOTAL INHOUSE # | RD T & F      | 0.000        | 0.000             |      |
| ANNUAL OPERATIO | IG COST       | 5.086        | 5.942             |      |
|                 | PERSONNEL DAT | TA (END OF   | FY 1978)          |      |
| PERSONNEL       | AUTHORIZED    | TOTAL        | TOTAL             | NON- |
|                 | STRENGTH      | PHDS         | PROF              | PROF |
| MILITARY        | 3             | 0            | 2                 | 1    |
| CIVILIAN        | 0             | 0            | 0                 | 0    |
| TOTAL           | 3             | 0            | 2                 | 1    |
|                 | SPACE         | E AND PROPER | TY                |      |

|  | SPACE | AND | PROPER' | TY |
|--|-------|-----|---------|----|
|  |       |     |         |    |

| ACRES | SPACE (THO | PAGE (THOUSANDS OF SQUARE FEET) |         | COST (MILLION \$) |           |       |
|-------|------------|---------------------------------|---------|-------------------|-----------|-------|
|       | LAB        | ADMIN                           | OTHER   | TOTAL             | REAL PROP | EQUIP |
| 4973  | 45.706     | 15.987                          | 341.075 | 402.768           | 35.000    | 0.000 |

# ...MISSION

PROVIDE ALL FACILITIES AND SERVICES FOR ACCOMPLISHING PROGRAMS OF BASIC AND APPLIED RESEARCH WHICH CONTRIBUTE TO SUCCESSFUL NAVY OPERATIONS IN THE ARCTIC REGIONS AND ENVIRONMENT.

...CURRENT IMPORTANT PROGRAMS
STUDY PHYSICAL PROPERTIES, OPTICAL CHARACTERISTICS AND CHEMICAL COMPOSITION OF ARCTIC AEROSOLS.
CONSTRUCT SEDIMENT DISTRIBUTION CHART OF THE ARCTIC BASIN.
DEVELOP RELATIONSHIPS BETWEEN ICE, AIR AND WATER OF THE ARCTIC OCEAN.
STUDY THE PHYSICAL OCEANOGRAPHY OF THE BARENTS AND KARA SEAS.

\*\*\*.FUNCTIONS/EQUIPMENT/CAPABILITIES
THE FACILITY CONSISTS OF 116 SEMI-PERMANENT AND PREMANENT BUILDINGS
INCLUDING A LABORATORY-ADMINISTRATION-BILLETING BUILDING WHICH HAS 43
LABORATORY SPACES, SLEEPING QUARTERS FOR 100 PEOPLE, ADMIN OFFICES, GAME ROCH, MUSEUM OF ARCTIC FAUNA AND ARCHEOLOGY AND A LYBRARY OF POLAR ORIENTED PUBLICATIONS. THE LAB PROVIDES FACILITIES MAINTENANCE, UTILITY GENERATION AND DISTRIBUTION, MOTOR VEHICLE OPERATION AND MAINTENANCE, FIRE PROTECTION AND SECURITY, JANITORIAL SERVICE, COMMUNICATIONS, AIRPORT OPERATION, MEDICAL SUPPORT, FOOD SERVICE, AND PROVISION OF SPECIAL SERVICES, INCLUDING LAUNDRY, RECREATION AND RESALE ACTIVITIES. THE LABS CAPABILITY INCLUDES LIMITED SUPPORT OF MILITARY OPERATIONS IN THE ARCTIC INCLUDING SEARCH AND RESCUE.

AND THE RESIDENCE OF THE PROPERTY OF THE PROPE

INSTALLATIONS ATLANTIC FLEET WEAPONS TRAINING FACILITY ROOSEVELY ROADS, P.R.

C.O.CAPT.E.W.INGLEY

DEV.ENG.CHIEF MR. TOMAS RAMIREZ

|                       | PROGRAM DATA BY FISCA | L YEAR (MILLION \$) |
|-----------------------|-----------------------|---------------------|
| PROGRAM               | 1978                  | 1979                |
|                       | (ACTUAL)              | (ACT + EST)         |
| TOTAL ROTEE           | 0.286                 | 0.280               |
| TOTAL PROCUREMENT     | 3.457                 | 4.400               |
| TOTAL CEM             | 9.267                 | 9.574               |
| TOTAL OTHER           | 1.897                 | 1.957               |
| TOTAL ANNUAL LAB      | 14.907                | 16.211              |
| TOTAL INHOUSE         | 3.402                 | 3.482               |
| TOTAL INHOUSE RDT&F   | 0.156                 | 0.155               |
| ANNUAL OPERATING COST | 0.954                 | 0.883               |

|           | PERSONNEL DATA | (END OF FY | 1978) |      |
|-----------|----------------|------------|-------|------|
| PERSONNEL | AUTHORIZED     | TOTAL      | TOTAL | NON- |
|           | STRENGTH       | PHDS       | PROF  | PROF |
| MILITARY  | 100            | 0          | 27    | 73   |
| CIVILIAN  | 34             | 0          | 34    | 0    |
| TOTAL     | 134            | 0          | 61    | 73   |

|       |            | SPACE AN  | D PROPERTY |         |           |          |
|-------|------------|-----------|------------|---------|-----------|----------|
| ACRES | SPACE (THE | USANDS OF | SQUARE FF  | ET)     | COST (MIL | LION \$1 |
|       | LAB        | ADMIN     | OTHER      | TOTAL   | REAL PROP | FQUIP    |
| 3602  | 0.000      | 14.957    | 154.005    | 168.962 | 10.717    | 92.007   |

#### ...MISSION

TO OPERATE, MAINTAIN AND DEVELOP WEAPONS TRAINING FACILITIES AND SERVICES IN DIRECT SUPPORT OF THE TRAINING OF FLEET FORCES AND OTHER ACTIVITIES, AND FOR THE DEVELOPMENT, TEST AND EVALUATION OF MEAPONS SYSTEMS.

...CURRENT IMPORTANT PROGRAMS
MOBILE SEA RANGE DEVELOPMENT SUPPORT
DD-963 CLASS POST DELIVERY TESTING SUPPORT
ANTI-SHIP MISSILE DEFENSE
HARPOON TESTING SUPPORT
SUBMARINE SILENCING PROGRAM

# ... FUNCTIONS/EQUIPMENT/CAPABILITIES

NAVYS LARGEST TRAINING GRND FOR ATLANTIC FORCES WITH 202,000 SQ.NM. COMBINED SEA AREA FOR AIR SURFACE AND SUBSURFACE WARFARE OPERATIONS.CENTRAL COMMAND AND CONTROL SYSTEM WITH NTDS LINKING REALISTIC FW ENVIRONMENT. SURVEILLANCE/TRACK RADARS, AIR/SURFACE TARGET PRESENTATION, LARGE SCREEN DISPLAY SYSTEM FOR OPS MONITOR/CONTROL, EVENT RECONSTRUCTION, AND VARIOUS INSTRUMENTATION SYSTEMS BASED AROUND A UNIVAC 1230 COMPUTER SYSTEM WITH EXTENDED CORE MEMORY UNIT. FLTAC FIELD STATION FOR MISSILF ANALYSIS AND EVALUATION. AIR TO GRND AND SURFACE TO SURFACE WEAPONS TARGET FACILITIES FOR CONVENTIONAL AIRCRAFT ORDNANCE DELIVERY, STRAFING AND NAVAL GUNFIRE WITH RADAR, TV BOMB SCORING SYSTEM AND OTHER SCORING/SPOTTING SYSTEMS.UNDERWATER RANGE FOR PRECISION SURFACE AND SUBSURFACE TRACKING, WSATS AND FORACS.NAVSTA PROVIDES FOR AIRCRAFT/SHIPS LOGISTIC SUPPORT, BOO AND BEQ.

INSTALLATION: BIOSCIENCES LABORATORY

DAKLAND . CA.

C.O.CAPT.J.F.PRIBNOW

SCI.DIR.DR.N.A. VEDROS

|                       | PROGRAM DATA BY FISCAL YE | AR (MILLION \$) |
|-----------------------|---------------------------|-----------------|
| PR OGR AM             | 1978                      | 1979            |
|                       | (ACTUAL) (ACT             | + FST) .        |
| TOTAL ROTEE           | 2.164                     | 2.110           |
| TOTAL PROCUREMENT     | 0.000                     | 0.000           |
| TOTAL DAM             | 0.000                     | 0.000           |
| TOTAL OTHER           | 0.946                     | 0.593           |
| TOTAL ANNUAL LAB      | 3.110                     | 2.703           |
| TOTAL INHOUSE         | 0.869                     | 0.783           |
| TOTAL INHOUSE ROTEE   | 0.556                     | 0.430           |
| ANNUAL OPERATING COST | 0.468                     | 0.430           |

|           | PERSONNEL DATA | (END OF F | Y 1978). |      |
|-----------|----------------|-----------|----------|------|
| PERSONNEL | AUTHORIZED     | TOTAL     | TOTAL    | NON- |
|           | STRENGTH       | PHDS      | PROF     | PROF |
| MILITARY  | 18             | 1         | 6        | 12   |
| CIVILIAN  | 6              | 0         | 0        | 6    |
| TOTAL     | 24             | 1         | 6        | 18   |

|       |            | SPACE AN  | D PROPERTY |         |            |         |
|-------|------------|-----------|------------|---------|------------|---------|
| ACRES | SPACE (THO | USANDS OF | SQUARE FE  | FT)     | COST (MILL | ION \$) |
|       | LAB        | ADMIN     | OTHER      | TOTAL   | REAL PROP  | FQUIP   |
| 5     | 77.625     | 8.731     | 34.646     | 121.002 | 1.000      | 5.400   |

# ...MISSION

CONDUCTS RESEARCH IN MICROBIOLOGY ATMED AT THE PREVENTION AND CONTROL OF DISEASES OF NAVAL PERSONNEL UNDER ISOBARIC, HYPERBARIC AND HYPOBARIC CONDITIONS AS WELL AS NORMAL AND UNUSUAL BREATHING MIXTURES. ALSO CONDUCTS RESEARCH ON FOLLUTION CONTROL AND ABATEMENT.

...CURRENT IMPORTANT PROGRAMS
WORK ON SURVIVAL OF ENTEROPATHOGENS IN SEA WATER
DETERMINE DISEASES OF MARINE MAMMALS OF IMPORTANCE TO THE NAVY
DEVELOP BIOINDICATOR ORGANISMS THAT CAN SERVE AS POLLUTION INDICATORS
USE OF MICRO-ORGANISMS FOR BIODEGRADATION OF POLLUTANTS IN SEAWATER
ISOLATE AND IDENTIFY ANTIBACTERIAL AND ANTIVIRAL SUBSTANCES FROM THE SEA

...FUNCTIONS/EQUIPMENT/CAPABILITIES
EQUIPMENT INCLUDES MINIATURE DEEP FREEZE AND MINIATURE FIELD INCUBATORS
FOR VIRUS ISOLATION, ROTATING DRUM USED TO INVESTIGATE EFFECT OF LIGHT
ON AEROSOLIZED MICROORGANISMS AND PHOTOCHEMICAL REACTIONS, A HYPERBARIC
TEST FACILITY, MICROAEROFLUOROMETER USED TO TRACK AEROSOL CLOUDS AND
CLASS IV CONTAINMENT FACILITIES FOR HANDLING EXTREMELY PATHOGENIC VIRUS
AND BACTERIA, CONTINUOUS FLOW LIQUID WASTE DECONTAMINATION UNIT, PROCESS
AIR DECONTAMINATION SYSTEM, MOVABLE 400 LITER AEROSOL TEST CHAMBERS,
MOBILE VIROLOGY LABORATORY AND VARIOUS EXPOSURE AND HOLDING SYSTEMS FOR
SMALL ANIMALS. THE RESEARCH EQUIPMENT IS CONTINUOUSLY BEING MODIFIED AND
EXPANDED IN ORDER TO MAINTAIN A LAB THAT IS RESPONSIVE TO THE TOTAL
BIOLOGICAL NEEDS OF THE NAVY.

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CHILSEA.MA.

# INSTALLATION: BLOOD RESEARCH LABORATORY

#### C.O.CAPT.CESARE R.VALERI

|               | PROGRAM DA                            | ATA BY FISCAL | L YEAR (MILLION | \$) |
|---------------|---------------------------------------|---------------|-----------------|-----|
| PROGRAM       |                                       | 1978          | 1979            |     |
|               | · · · · · · · · · · · · · · · · · · · | STUAL)        | (ACT + EST)     |     |
| TOTAL ROTEF   |                                       | 0.887         | 0.183           |     |
| TOTAL PROCURE | MENT                                  | 0.000         | 0.000           |     |
| MAG JATOT     |                                       | 0.000         | 0.000           |     |
| TOTAL OTHER   |                                       | 0.176         | 0.037           |     |
| TOTAL ANNUAL  | LAB                                   | 1.063         | 0.229           |     |
| TOTAL INHOUSE |                                       | 1.063         | 0.220           |     |
| TOTAL INHOUSE | RDT&E                                 | 0.887         | 0.183           |     |
| ANNUAL OPERAT | TING COST                             | 0.305         | 0.078           |     |
|               | PERSONNEL DATA                        | (END OF FY    | 1978)           |     |
| PERSONNEL     | AUTHORIZED                            | TOTAL         | TOTAL           | RID |
| - "           | STRENGTH                              | PHDS          | PROF            | PR  |

|           | PERSONNEL DATA | (END OF F | Y 1978) |      |
|-----------|----------------|-----------|---------|------|
| PERSONNEL | AUTHORIZED     | TOTAL     | TOTAL   | HON- |
|           | STRENGTH       | PHDS      | PROF    | PROF |
| MILITARY  | 10             | 3         | 3       | 7    |
| CIVILIAN  | 9              | 0         | 2       | 7    |
| TOTAL     | 19             | 3         | 5       | 14   |

| ACRES | SPACE (THO |       | PROPERTY | T 1    | COST (MILL | TON 41 |
|-------|------------|-------|----------|--------|------------|--------|
| AUNTS | LAB        | ADMIN | OTHER    |        | REAL PROP  | FQUIP  |
| 1     | 14.720     | 7.360 | 8.300    | 30.380 | 0.500      | 1.216  |

...MISSION
CONDUCT RESEARCH AND DEVELOP METHODS FOR LONG-TERM PRESERVATION OF BLOOD AND BLOOD PRODUCTS AND EVALUATION OF USEFULNESS IN OPERATIONAL AREAS ON LAND, AT SEA, AND IN HOSPITALS

...CURRENT IMPORTANT PROGRAMS
WHITE CELL- AND PLATELET-POOR RED CELLS FOR THERAPEUTIC TRANSFUSION
EVALUATE METHODS FOR REJUVENATING INDATED AND OUTDATED RED CELLS
EVALUATE METHODS FOR PRESERVING PLATELETS, WHITE CELLS, AND STEM CELLS
CLINICAL EVALUATION OF FROZEN RED CELLS AND PLATELETS
EVALUATE NEW METHODS FOR COLLECTING WHITE CELLS, PLATELETS & JTEM CELLS

...FUNCYIONS/EQUIPMENT/CAPABILITIES
STORAGE CAPABILITY FOR 6500 UNITS OF FROZEN BLOOD
LIQUID AND FREEZE PRESERVATION EQUIPMENT FOR RED CELLS, WHITE CELLS,
PLATFLETS, PLASMA PROTEIN, AND STEM CELLS
EQUIPMENT TO BIOLOGICALLY EVALUATE THE VIABILITY AND FUNCTION OF RED
CELLS
EQUIPMENT TO BIOLOGICALLY EVALUATE THE VIABILITY AND FUNCTION OF WHITE
CELLS AND STEM CELLS
EQUIPMENT TO BIOLOGICALLY EVALUATE THE VIABILITY AND FUNCTION OF
PLATFLETS

and the state of t

PORT HUENEME, CA.

#### INSTALLATION: CIVIL ENGINEERING LABORATORY

C.O.CAPT.RONALD P.COPF

TECH.DIR.MR. WILLIAM F. BURKART

|              | PROGRAM      | DATA BY FIS  | CAL YEAR (MILLION | \$7         |
|--------------|--------------|--------------|-------------------|-------------|
| PROGRAM      |              | 1978         | 1979              |             |
|              |              | (ACTUAL)     | (ACT + FST)       |             |
| TOTAL RDTGE  |              | 20.853       | 27.237            |             |
| TOTAL PROCUR | EMENT        | 5.650        | 0.555             |             |
| TOTAL DEM    |              | 1.476        | 1.650             |             |
| TOTAL OTHER  |              | 1.229        | 1.260             |             |
| TOTAL ANNUAL | L AB         | 29.208       | 30.702            |             |
| TOTAL INHOUS | E            | 11.790       | 13.763            |             |
| TOTAL INHOUS |              | 9.606        | 11.329            |             |
| ANNUAL OPERA |              | 2.771        | 3.114             |             |
|              | PERSONNEL DA | ATA (END OF  | FY 1978)          |             |
| PERSONNEL    | AUTHORIZED   | TOTAL        | TOTAL             | NON-        |
|              | STRENGTH     | PHDS         | PROF              | PROF        |
| MILITARY     | 16           | 1            | 8                 | 8           |
| CIVILIAN     | 300          | 27           | 160               | 140         |
| TOTAL        | 316          | 28           | 168               | 148         |
|              | SPAC         | E AND PROPER | TY                |             |
| ACRES        |              |              | FEET) COST        | (MILLION S) |
|              |              | IN OTHER     | · · •             |             |
| 30           | 117-980 27-0 |              |                   | -000 2-393  |

# ... MISSION

MISSION OF LABORATORY IS TO BE THE PRINCIPAL NAVY ROTE CENTER FOR SHORE AND FIXED SURFACE AND SUBSURFACE OCEAN FACILITIES AND FOR THE NAVY AND MARINE CORPS CONSTRUCTION FORCES.

...CURRENT IMPORTANT PROGRAMS
NAVY SHORE FACILITIES SUPPORT, NAVY SEAFLOOR INSTALLATIONS, AMPHIBIOUS
AND ADVANCED BASE TECHNOLOGY. ENVIRONMENTAL PROTECTION. ORGANIC
MATERIALS. ENERGY TECHNOLOGY. DEEP OCEAN TECHNOLOGY. OFFSHORE BULK FUEL
TRANSFER. INDEPENDENT EXPLORATORY DEVELOPMENT. INDEPENDENT RESEARCH.
CONTAINER OFF-LOADING TRANSFER SYSTEM

\*\*\*FUNCTIONS/EQUIPMENT/CAPABILITIES

PRESSURE VESSEL FACILITY WITH 72-INCH-ID BY 10 FT. DEEP PRESSURE VESSEL SUSTAINING PRESSURES UP TO 5500 PSI. DIVING LOCKER AND EQUIPMENT FOR 10 DIVERS. SEAFLOOR SOILS, MATERIALS, ENERGY TEST BED, METALLURGICAL.PHOTO-ELASTIC, PHYSICAL SECURITY LABS, WARPING TUG, CORER FOR TAKING SAMPLE AT WATER DEPTHS TO 6000 FT., INSITU TESTING EQUIPMENT FOR DEEP OCEAN INCLUDING A VANE SHEAP DEVICE CONE PENETOMETER, 10 FT. CORER PLATE BEARING TEST DEVICE AND FOUNDATION MONITOR. PHOTOGRAPHIC FACILITY. ENVIRONMENTAL PROTECTION MONITORING CAPABILITY. CDC 8090 COMPUTER/TERMINAL WITH A HIGH SPEED READER AND LINE PRINTER. DIGITAL MAG TAPE T/O ANALOG TAPE. ADC AND DAC CONVERSION AND A FEN PLOTTER AND TIE WITH CDC-6600. ENERGY MONITORING ABILITY.

Will the said the control of the color of th

INSTALLATION: CLOTHING & TEXTILE RESEARCH FACILITY

NATICK . MA.

#### C.O.CDR.D.S.PARSONS

|                | PROG              | RAM DATA BY  | FISCAL YEAR (M) | ILLION \$) |          |
|----------------|-------------------|--------------|-----------------|------------|----------|
| PROGRAM        | ,                 | 1978         | 1979            |            |          |
|                |                   | (ACTUAL)     | (ACT + ES       | T)         |          |
| TOTAL RDT&E    |                   | 0.75         | 8 1.0           | 060        |          |
| TOTAL PROCUREM | ENT               | 0.00         | 0.0             | 000        |          |
| MAG JATOT      |                   | 1.09         | 2 1.0           | 067        |          |
| TOTAL OTHER    |                   | 0.02         | 9 0.0           | 029        |          |
| TOTAL ANNUAL L | AB                | 1.87         | 9 2.            | 156        |          |
| TOTAL INHOUSE  |                   | 1.51         | 9 1.9           | 989        |          |
| TOTAL IMMOUSE  | RDT&F             | 0.75         | 8 1.0           | 060        |          |
| ANNUAL OPFRATI | NG COST           | 0.12         | 1 0.            | 132        |          |
|                | PERSONNEL         | DATA (END    | OF FY 1978)     |            |          |
| PERSONNEL      | <b>AUTHORIZED</b> | TOTA         | L TOT           | AL         | NON-     |
|                | STRENGTH          | PHD          | S PRI           | 0F         | PROF     |
| MILITARY       | 1                 |              | 0               | 1          | 0        |
| CIVILIAN       | 56                |              | 3               | 7          | 19       |
| TOTAL          | 57                |              | 3               | 8          | 19       |
|                | s                 | PACE AND PRO | PERTY           |            |          |
| ACRES          | SPACE (THOUS      | ANDS OF SQUA | RE FEET)        | COST (MIL  | LION \$) |
|                | LAB               | ADMIN OT     | HER TOTAL       | REAL PROP  | EQUIP    |
| 1              | 10.000            | 7.000 3.     | 000 20.000      | 0.440      | 0.850    |

...MISSION

CONDUCT RESEARCH, DEVELOPMENT, TEST, AND EVALUATION AND GIVE ENGINFERING SUPPORT IN CLOTHING, TEXTILES, AND RELATED FIELDS ASSOCIATED WITH SERVICE CLOTHING AND ENVIRONMENTAL AND PROTECTIVE CLOTHING

...CURRENT IMPORTANT PROGRAMS
SEA ENVIRONMENT PROTECTIVE CLOTHING
FLAME-RETARDANT MATERIALS AND CLOTHING CONCEPTS
DIVERS INSULATED UNDERWEAR
ENERGY CONVERSION SYSTEM FOR PROTECTIVE CLOTHING
SHIPBOARD DAMAGE CONTROL CLOTHING

\*\*\*FUNCTIONS/EQUIPMENT/CAPABILITIES

MAJOR FUNCTIONS-CONDUCT ROTGE IN TEXTILE MATERIALS, LEATHER, PLASTICS, AND RUBBER
DEVELOP NAVY CLOTHING, ACCESSORIES, AND RELATED ITEMS
CONDUCT STUDIES IN ENVIRONMENTAL SCIENCES AND LIFE SUPPORT SYSTEMS
PREPARE SPECIFICATIONS FOR CLUTHING, TEXTILES, FOOT WEAR & RELATED ITEMS
COORDINATE STANDARDIZATION IN CLOTHING
PROVIDE TECHNICAL SUPPORT TO ALL DOD AGENCIES IN NAVY CLOTHING AREAS
MAJOR EQUIPMENT AND FACILITIES-TEXTILE LABORATORIES
COLD TEST CHAMBERS
HYDRO-ENVIRONMENT SIMULATOR
HIGH-INTENSITY THERMAL TEST UNIT.

More than the transfer of the second and the second

PANAMA CITY, FL.

EQUIP

16.559

# INSTALLATION: COASTAL SYSTEMS CENTER

C.O.CAPT.JAMES V.JOLLIFF

TECH.DIR.MR.GERALD G. GOULD

|                       | PROGRAM DATA BY   | FISCAL YEAR (MIL | LION \$)          |
|-----------------------|-------------------|------------------|-------------------|
| PROGRAM               | 1978              | 1979             |                   |
|                       | (ACTUAL)          | (ACT + EST)      |                   |
| TOTAL ROTGE           | 28.92             | 5 41.08          | 8                 |
| TOTAL PROCUREMENT     | 3.05              | 2 2.24           | 2                 |
| MAG LATOT             | 5.88              | 2 5.26           | 6                 |
| TOTAL OTHER           | 3.59              | 2.53             | 8                 |
| TOTAL ANNUAL LAB      | 41.45             | 51.13            | 4                 |
| TOTAL INMOUSE         | 22.57             | '8 33.61         | 2                 |
| TOTAL INHOUSE ROTEF   | 14.60             |                  |                   |
| ANNUAL OPERATING COST | 7.95              |                  |                   |
| PERS                  | SONNEL DATA (FND  | OF FY 1978)      | ,                 |
| PERSONNEL AUTHOR      | TZED TOTA         | SATOT S          | NON-              |
| STREM                 |                   | S PROF           |                   |
| MILITARY              | 113               | 1 8              | 105               |
| CIVILIAN              | 541 2             | 275              | 366               |
|                       |                   | 283              | 471               |
|                       | SPACE AND PRO     | PERTY            |                   |
| ACRES SPACE           | THOUSANDS OF SQUA |                  | COST (MILLION \$) |

...MISSION

682

TO BE THE PRINCIPAL NAVY ACTIVITY FOR CONDUCTING ROTGE IN SUPPORT OF NAVAL MISSIONS AND OPERATIONS THAT TAKE PLACE PRIMARILY IN THE COASTAL (CONTINENTAL SHELF) REGIONS

OTHER

247.630

TOTAL

631.727

REAL PROP

Marie 192 Mary market the market the contract of the contract

31.358

ADMIN

38.150

...CURRENT IMPORTANT PROGRAMS
DIVING & SALVAGE
MINE COUNTERMEASURES
ACOUSTIC & TORPEDO COUNTERMEASURES
COASTAL OPERATIONS SUPPORT
COASTAL TECHNOLOCY R&D & ADVANCED CRAFT T&E

LAB

345.947

...FUNCTIONS/FQUIPMENT/CAPABILITIES

OCEAN SIMULATION FAC. HYDROSPACE LAB. HYDRODYNAMIC PRESSURE SIMULATOR.
SWIMMER/DIVER R&D FAC. WET SUBMERSIBLE VEHICLE FAC. GAS ANALYSIS LAB.
TWO OFFSHORE PLATFORMS WITH LIVING QUARTERS FOR 30 & 4 PEOPLE. MAGNETIC
TARGET DETECTION & CLASSIFICATION RANGE. SYSTEMS DEVELOPMENT & TEST FAC.
MAGNETIC LAB. CALIBRATION & STANDARDS FAC. MECHANICAL CALIBRATION LAB.
OFTICAL POSITIONING SYSTEM. POST RUN ANALYSIS SYSTEM. PORTABLE TRACKING.
ELECTPONIC TRACKING RANGE. ACOUSTIC TEST POOL. PRECISION ACOUSTIC TANK.
ACOUSTIC ANALYSIS FAC. ENVIRONMENTAL MONITURING SYSTEM. COUNTERMEASURES
EVALUATOR. BURROUGHS B-5700 DIGITAL COMPUTER. LOW FREQUENCY HYDROPHONE
CALIBRATION FA. TRANSDUCER LAB & CALIBRATION FAC. MODEL TOWING BASIN.
INDUSTRIAL SHUPS. PIER SPACE & BOATS TO INCLUDE RESEARCH VESSEL. ATHENA.

MSO-443. USS FIDELITY. HELIPORT COMPLEX WITH 3 RH53D & 2 UH1F HELDS.

INSTALLATION: DAVID W. TAYLOR SHIP RED CENTER

BETHESDA, MD.

C. O. CAPT. M.V.RICKETTS

TECH.DIR.DR.A. POWELL

|                | PROGRAI        | M DATA BY FI | SCAL YEAR (MILLION | ! \$1        |
|----------------|----------------|--------------|--------------------|--------------|
| PROGRAM        |                | 1978         | 1979               |              |
|                |                | (ACTUAL)     | (ACT + FST)        |              |
| TOTAL RDT&F    |                | 99.867       | 111.758            |              |
| TOTAL PROCUREM | ENT            | 3.186        | 9.655              |              |
| TOTAL DEM      |                | 25.063       | 18.014             |              |
| TOTAL OTHER    |                | 16.973       | 18.539             |              |
| TOTAL ANNUAL L | AB             | 145.089      | 157.966            |              |
| TOTAL INHOUSE  |                | 115.636      | 125.284            |              |
| TOTAL INHOUSE  | RDT&E          | 78.958       | 88.533             |              |
| ANNUAL OPERATI | NG COST        | 36.281       | 42.696             |              |
|                | PERSONNEL D    | ATA (END OF  | FY 1978)           |              |
| PERSONNEL      | AUTHORIZED     | TOTAL        | TOTAL              | NON-         |
|                | STRENGTH       | PHOS         | PROF               | PROF         |
| MILITARY       | 77             | 0            | 22                 | 55           |
| CIVILIAN       | 2570           | 125          | 1202               | 1368         |
| TOTAL          | 2647           | 125          | 1224               | 1423         |
|                | SPA            | CE AND PROPE | ERTY               | •            |
| ACRES          | SPACE (THOUSAN | DS OF SQUARE | FEET) COST         | (MILLION \$) |
|                |                | HIN OTHE     |                    | PROP EQUIP   |
| 325            | 1620.739 126.  | 879 287.10   | 9 2034.727 7       | 1.007 52.625 |

## ...MISSION

TO BE THE PRINCIPAL NAVY ROYGE CENTER FOR NAVAL VEHICLES AND LOGISTICS, AND TO PROVIDE ROTGE SUPPORT TO THE U.S. MARITIME ADMINISTRATION AND THE MARITIME INDUSTRY.

...CURRENT IMPORTANT PROGRAMS
SUBMARINE SILENCING, TARGET STRENGTH REDUCTION, SUBMARINE MANEUVERING,
PRESSURE HULLS, PROPELLER DESIGN, ELECTRIC PROPULSION, CIRCULATION CONTROL ROTORS AND WINGS, ENERGY CONSERVATION AND SOURCES, HIGH STRENGTH
STEEL, HYDROFOILS, SWATH, SURVIVABILITY, AND LOGISIYCS.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
PLAN AND CONDUCT ROTEE FOR NAVAL VEHICLES SHIPS, SUBMARINES & AIRCRAFT
AND SUPPORT THE OPERATING FORCES IN THE AREAS OF SHIP'S SYSTEMS DEVELOP—
MENT AND TECHNOLOGY, HYDRODYNAMICS, STRUCTURES, ACQUISTICS, PROPULSION
AND AUXILIARY MACHINERY SYSTEMS, SHIP'S MATERIALS ENGINEERING, COMPUTER—
AIDED SHIP DESIGN, AIRBORNE AERODYNAMICS AND LOGISTICS.
FACILITIES INCLUDE: SHALLOW AND DEEP WATER TOWING BASINS, MANEUVERING &
SFAKEEPING BASIN, WIND TUNNELS, ANECHOIC FLOW FACILITY, WATER TUNNELS,
STRUCTURAL EVALUATION LAB, UNDERWATER EXPLOSIONS LABORATORY BARGE,
SEVERAL LARGE PRESSURE TANKS, SUBMARINE INTERNAL FLUID DYNAMICS FACILI—
TY, HETALLURGICAL CHARACTERIZATION AND EVALUATION FACILITY, WELDING
DEVELOPMENT LABORATORY, AND MACHINERY DEVELOPMENT LABORATORY.

GREAT LAKES, IL.

INSTALLATION: DENTAL RESEARCH INSTITUTE, NTC

C.O.CAPT.M.R.WIRTHLIN JR.

|               | PRO         | GRAM DAT | A BY FISCA | L YEAR (M) | LLION \$) |          |
|---------------|-------------|----------|------------|------------|-----------|----------|
| PROGRAM       |             | 1        | 978        | 1979       |           |          |
|               |             | TSAI     | UAL)       | (ACT + FST | ·)        |          |
| TOTAL ROTEF   |             |          | 0.593      | 0.6        | 33        |          |
| TOTAL PROCURE | MENT        |          | 0.000      | 0.0        | 000       |          |
| MBO JATOT     |             |          | 0.000      | 0.0        | 000       |          |
| TOTAL OTHER   |             |          | 0.548      | 0.5        | 37        |          |
| TOTAL ANNUAL  | LAB         |          | 1.141      | 1.1        | .70       |          |
| TOTAL INHOUSE | <u>.</u>    |          | 1.141      | 1.1        | 76        |          |
| TOTAL INHOUSE | RDTEF       |          | 0.593      | 0.6        | 33        |          |
| ANNUAL OPERAT | FING COST   |          | 0.250      | 0.2        | 60        |          |
|               | PERSONNE    | L DATA   | (END OF F  | ( 1978)    |           |          |
| PERSONNEL     | AUTHORIZED  |          | TOTAL      | TOTA       | NL .      | NON-     |
|               | STRENGTH    |          | PHDS       | PRE        | 1F        | PROF     |
| MILITARY      | 28          |          | 3          | 10         | )         | 18       |
| CIVILIAN      | 16          |          | 3          | •          | 7         | 9        |
| TOTAL         | 44          |          | 6          | 1          | 7         | 27       |
|               |             | SPACE AN | D PROPERTY | 1          |           |          |
| ACRES         | SPACE (THOU | SANDS OF | SQUARE FI  | FET)       | COST (MIL | LION \$) |
|               | LAB         | ADMIN    |            | TOTAL      | REAL PROP | EQUIP    |
| 0             | 22.025      | 4.815    |            | 40.195     | 0.000     | 0.647    |

...MISSION

TO CONDUCT RESEARCH, DEVELOPMENT, TEST, AND EVALUATION IN DENTAL AND ALLIED SCIENCES, WITH PARTICULAR EMPHASIS ON PROBLEMS OF DENTAL AND ORAL HEALTH IN NAVY AND MARINE CORPS POPULATIONS ASHORE, AFLOAT AND IN THE FIFLD

...CURRENT IMPORTANT PROGRAMS

FVALUATION OF DENTAL IMPLANTS

PROCEDURES FOR TREATMENT OF DENTAL PULP DISEASE

WOUND HEALING OF SUPPORTING TISSUES

NAVY DENTAL TECHNICIAN UTILIZATION

DENTAL EQUIPMENT DEVELOPMENT AND EVALUATION OF FLEFT HEALTH

...FUNCTIONS/FQUIPMENT/CAPARILITIES
AMINO ACID ANALYZER/ATOMIC ABSORPTION UNIT/FLOURIDE ELECTRODES/
SCINTILATION COUNTER/MINI COMPUTER/GAS CHROMATOGRAPH UNIT/FOUR DENTAL
UNITS/FOUR DENTAL CHAIRS/TRANSMISSION ELECTRON MICROSCOPE

#### INSTALLATION: ENVIRONMENTAL PREDICTION RESEARCH FACILITY HONTEREY, CA.

C.O.CAPT.P.A.PETIT

ANNUAL OPERATING COST

RSCH.DIR.DR.A. WEINSTEIN

0.504

|        |               | PROGRAM DATA BY FISCAL | L YEAR (MILLION \$) |
|--------|---------------|------------------------|---------------------|
| PROGRA | AM .          | 1978                   | 1979                |
|        |               | (ACTUAL)               | (ACT + EST)         |
| TOTAL  | RDT&E         | 2.918                  | 2.091               |
| TOTAL  | PROCUREMENT   | 0.000                  | 0.000               |
| TOTAL  | Mao           | 0.000                  | 0.000               |
| TOTAL  | OTHER         | 0.213                  | 0.226               |
| TOTAL  | ANNUAL LAB    | 3.131                  | 2.317               |
| TOTAL  | INHOUSE       | 1.409                  | 1.737               |
| TOTAL  | INHOUSE ROTEE | 1.196                  | 1.511               |

|           | PERSONNEL DATA | (END OF F | Y 1978) |      |
|-----------|----------------|-----------|---------|------|
| PERSONNEL | AUTHORIZED     | TOTAL     | TOTAL   | NON- |
|           | STRFNGTH       | PHDS      | PROF    | PROF |
| MILITARY  | 14             | 0         | 6       | 8    |
| CIVILIAN  | 41             | 7         | 30      | 11   |
| TOTAL     | 55             | 7         | 36      | 19   |

|       |            | SPACE AN  | D PROPERTY  |        |            |         |
|-------|------------|-----------|-------------|--------|------------|---------|
| ACRES | SPACE (THO | USANDS OF | SQUARE FEET | Υ)     | COST (MILL | ION \$1 |
|       | LAR        | ADM IN    | OTHER       | TOTAL  | REAL PROP  | FQUIP   |
| 0     | 1.362      | 4.858     | 10.594      | 16.814 | 0.000      | 0.883   |

#### ...MISSION

CONDUCT RESEARCH AND DEVELOPMENT DIRECTED TOWARD PROVIDING OBJECTIVE LOCAL, REGIONAL AND GLOBAL ENVIRONMENTAL ANALYSIS AND PREDICTION TECHNIQUES. PROVIDE PLANNING, MODELING AND EVALUATION SERVICES FOR DETERMINING THE EFFECT OF ENVIRONMENTAL ELEMENTS ON NAVAL WEAPON SYSTEMS.

...CURRENT IMPORTANT PROGRAMS
DEVELOP TECHNIQUES FOR PROCESS/DISPLAY OF ENVIRONMENTAL SATELLITE DATA
DEVELOP COMPUTER MODELS TO ANALYZE/ASSIMILATE ATMOSPHERIC DATA
DEVELOP TECHNIQUES TO PREDICT/DIAGNOSE ATMOS EFFECTS ON WEAPON SYSTEMS
DEVELOP OBJECTIVE LOCAL/REGIONAL ATMOS.ANALYSIS/PREDICTION TECHNIQUES
DEVELOP SYNOPTIC.SUBSYNOPTIC AND MESOSCALE ATMOS.PREDICTION MODELS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
DATACRAFT/5 COMPUTER
TWO NOVA 2 COMPUTERS
WANG 2200 COMPUTER
TWO TEKTRONIX 4051 COMPUTER TERMINALS
ACCESS TO DNE CDC CYBER 375 COMPUTER
ACCESS TO THREE CDC 6500 COMPUTERS
ELECTRONIC MAINTENANCE SHOP
PHOTOGRAPHIC LABORATORY
TWO TI 733 DUAL CASSETTE COMPUTER TERMINALS
THREE TI 735 PORTABLE COMPUTER TERMINALS
FOUR LEAR-SIEGLER ADM-3A COMPUTER TERMINALS
THREE TI 745 PORTABLE COMPUTER TERMINALS

A STATE OF THE STA

INSTALLATION: EXPLOSIVE ORDNANCE DISPOSAL FACILITY

INDIAN HEAD, MD.

C.O.CDR. W.S.CADON

TECH DIR.MR.L.A.DICKENSON

|                       | PROGRAM DATA BY FISCAL | YEAR (MILLION \$) |
|-----------------------|------------------------|-------------------|
| PROGRAM               | 1978                   | 1979              |
|                       | (ACTUAL) (             | ACT + FST)        |
| TOTAL ROTGE           | 4.667                  | 4.566             |
| TOTAL PROCUREMENT     | 0.615                  | 0.615             |
| TOTAL DEM             | 2.773                  | 4.072             |
| TOTAL OTHER           | 0.847                  | 0.690             |
| TOTAL ANNUAL LAB      | 8.902                  | 9.943             |
| TOTAL INHOUSE         | 5.569                  | 6.44R             |
| TOTAL INHOUSE ROTEE   | 2.592                  | 2.347             |
| ANNUAL OPFRATING COST | 2.392                  | 2.547             |

|            | PERSONNEL DATA | (END OF F | Y 1978) |      |
|------------|----------------|-----------|---------|------|
| PERSONNE L | AUTHORIZED     | YOTAL     | TOTAL   | NON- |
|            | STRENGTH       | PHDS      | PROF    | PROF |
| MILITARY   | 50             | 0         | 8       | 42   |
| CIVILIAN   | 165            | ?         | 45      | 120  |
| TOTAL      | 215            | ?         | 43      | 162  |

| ACRES | SPACE (THO    | - · • · · · · · · · · · · · · · · · · · | D PROPERTY<br>Square Fe |   | COST (MILL | ION \$)        |
|-------|---------------|-----------------------------------------|-------------------------|---|------------|----------------|
| 1087  | LAB<br>34.681 | ADM IN                                  | OTHER<br>49.985         | • | REAL PROP  | FQUIP<br>2.339 |

...MISSION
CONDUCT RESEARCH, DEVELOPMENT, TEST AND EVALUATION CONCERNING BOTH THE
DISPOSAL AND RENDERING-SAFE PROCEDURES FOR CONVENTIONAL AND SPECIAL
WEAPONS, GUIDED MISSILES, UNDERNATER WEAPONS, EXPLOSIVES, BIO AND CHEM.
MUNITIONS, BOTH U.S. AND FOREIGN, PLUS THE REQUIRED TOOLS AND EQUIPMENT.

\*\*\*CURRENT IMPORTANT PROGRAMS
RANGE CLEARANCE AND DISPOSAL TECHNIQUES
REMOTE CASE ENTRY SYSTEMS
IMPROVISED EXPLOSIVE DEVICE COUNTERMEASURES
EXPLOSIVE CONTAINMENT SYUDY
EDD DIVER BREATHING SYSTEM

...FUNCTIONS/EQUIPMENT/CAPABILITIES
DEVELOP EXPLOSIVE ORDNANCE DISPOSAL -FOD- PROCEDURE, PREPARE AND PUBLISH
EOD PUBLICATIONS FOR JOINT SERVICE USE. CONDUCT EXP. AND ADV. DEVELOPMENT LEADING TO SPECIALIZED TOOLS AND EQUIP. NEFDED TO LOCATE, IDENTIFY,
RECOVER, RENDER-SAFE AND DISPOSE OF ALL TYPES OF EXPLOSIVE DRONANCE.
PREPARE AND MAINTAIN DOCUMENTATION FOR EOD TOOLS AND EQUIP. CONDUCT
FIRST ARTICLE INSPECTION ON EOD TOOLS BEING PROCURED FOR ALL SERVICES.
CONDUCT IN-SEARCH ENGINEERING FUNCTIONS FOR FOD AND SWIMMER WEAPONS
SYSTEM TOOLS. CONDUCT INITIAL EVALUATION OF FOREIGN EXPLOSIVE ORDNANCE.
MAINTAIN, STOCK AND ISSUE FOD PUBLICATIONS FOR JOINT-SERVICE USE.
CAPABILITY OF TESTING EOD TOOLS TO A DEPTH OF 400 FT IN A DIVING CHAMBER

The property of the second of

NON-PROF

#### INSTALLATION: HEALTH RESEARCH CENTER

C.O.CAPT. RICHARD H.RAHF

|                       | PROGRAM DATA BY FISCAL | YEAR (MILLION \$) |
|-----------------------|------------------------|-------------------|
| PROGRAM               | 1978                   | 1979              |
|                       | (ACTUAL) (/            | ACT + FST)        |
| TOTAL ROTEE           | 2.378                  | 2.600             |
| TOTAL PROCUREMENT     | 0.000                  | 0.000             |
| TOTAL DEM             | 0.000                  | 0.000             |
| TOTAL OTHER           | 0.592                  | 0.625             |
| TOTAL ANNUAL LAB      | 2.970                  | 3.225             |
| TOTAL INHOUSE         | 2.565                  | 2.925             |
| TOTAL INHOUSE ROTEE   | 1.973                  | 2 + 300           |
| ANNUAL OPERATING COST | 0.416                  | 0.375             |
| PERS                  | ONNEL DATA (FND OF FY  | 1978)             |
| PERSONNEL AUTHORI     | ZED TOTAL              | TOTAL             |
| STREN                 | GTH PHDS               | PROF              |
| MILITARY              | 35 8                   | 10                |

|          |     | AND PROPERTY |    |     |
|----------|-----|--------------|----|-----|
| TOTAL    | 121 | 18           | 41 | 80  |
| CIVILIAN | 86  | 10           | 31 | 55  |
| MILIIAKY | 27  | O            | 10 | 6.7 |

ACRES SPACE (THOUSANDS OF SQUARE FEET) COST (MILLION \$)

LAB ADMIN OTHER TOTAL REAL PROP EQUIP

1 11.177 4.500 0.000 15.677 1.880 0.491

...MISSION
CONDUCT RSCH AND DEVELOPMENT ON MEDICAL AND PSYCHOLOGICAL ASPECTS OF HEALTH AND PERFORMANCE OF NAVAL SERVICE PERSONNEL AND TO PERFORM SUCH OTHER FUNCTIONS OR TASKS AS MAY BE DIRECTED BY CHIEF BUNFO

...CURRENT IMPORTANT PROGRAMS
MORBIDITY FORECASTING
PSYCHOLOGICAL DEFENSES, COPING IN THE NAVAL RECRUIT
STUDY OF SLEEP PATTERNS/STRESS
MEDICAL/PSYCHOLOGICAL RESPONSES TO PROLONGED STRESS
RAPID DIAGNOSIS USING ANTIGEN-ANTIBODY REACTIONS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
ELECTROENCEPH MONITORING OF SLEEP PATTERNS
CARDIOVASCULAR SIRESS TESTING LAB
MUSCLE STRENGTH TESTING LAB
RADIOIMMUND — ASSAY CAPABILITY
SERUM AUTO-ANALYSIS
MICROBIOLOGY DIAGNOSTIC KITS
COMPUTER STORAGE-TOTAL USN/USMC HEALTH DATA
COMPLETE HEALTH DATA FOR ENLISTED WOMEN
STUDIES OF SUBMERSIBLES
BIOCHEMICAL CORRELATES OF STRESS

All dentes and the same of the same of

INSTALLATION: MEDICAL RESEARCH INSTITUTE

BETHESDA.MD.

#### C.O.CAPT.WALTER F.MINER

|              | PR(        | GRAM DATA | NY FISC  | AL YEAR (M) | ILLION \$1 |         |
|--------------|------------|-----------|----------|-------------|------------|---------|
| PROGRAM      |            | 19        | 78       | 1979        |            |         |
|              |            | LACTI     | IALT     | CACT + FST  | r) .       |         |
| TOTAL ROTEF  |            | 1         | 10.597   | 11.4        | 41         |         |
| TOTAL PROCUR | EMENT      |           | 0.000    | 0.0         | 000        |         |
| MAG JATOT    |            |           | 0.000    | 0.0         | •          |         |
| TOTAL OTHER  |            |           | 3.454    | 3.          | 44         |         |
| TOTAL ANNUAL | LAB        | 1         | 14.051   | 15.0        |            |         |
| TOTAL INHOUS | F          | 1         | 13.308   | 14-1        | 364        |         |
| TOTAL INHOUS | E ROTEF    |           | 9.854    | 11.5        | 20         |         |
| ANNUAL OPERA | TING COST  |           | 6.386    | 4.:         | 336        |         |
|              | PERSONNI   | EL DATA   | END OF F | Y 1978)     |            |         |
| PERSONNEL    | AUTHORIZED |           | TOTAL    | TOT         | AL         | NON-    |
|              | STRENGTH   |           | PHDS     | PRI         | 3F         | PROF    |
| MILITARY     | 251        |           | 63       | 9           | 5          | 165     |
| CIVILIAN     | 241        |           | 39       | 8:          | 3          | 358     |
| TOTAL        | 492        |           | 102      | 169         | •          | 373     |
|              |            | SPACE AND | PROPERT  | Υ           |            |         |
| ACRES        | SPACE (THO | JSANDS OF | SQUARE F | FFT)        | COST (MIL  | LION 51 |
|              | LAB        | ADMIN     | OTHER    | TOTAL       | REAL PROP  | EQUIP   |
| 4            | 145.868    | 9.400     | 40.299   | 195.567     | 3.887      | 1.479   |

...MISSION CONDUCT BASIC & APPLIED RESEARCH & DEVELOPMENT CONCERNED WITH THE HEALTH SAFETY & EFFICIENCY OF NAVY PERSONNEL

# ... CURRENT IMPORTANT PROGRAMS

TISSUE TYPING ORGAN TRANSPLANTS & IMMUNOSUPPRESSION IN RESTORATIVE SURG BASIC & APPLIED MICROBIOLOGY & VACCINE DEV TO CONTROL MALARIA & SCHISTO BASIC MECHANISM OF BACTERIAL & TRAUMATIC SHOCK HEAT STRESS & TOXIC MAT PSYCHOLOGICAL AND PHYSIOLOGICAL EFFECTS OF HYPERBARIC ENVIRONMENT MECHANISMS OF ORAL PLACQUE DISEASE & TREATMENT OF ORAL DISEASE & TRAUMA

...FUNCTIONS/EQUIPMENT/CAPABILITIES ENVIRONMENTAL HEALTH EFFECT LAB INCLUDE MAN-RATED & ANIMAL HYPER CHAMB HUMAN PHYSIOLOGICAL & HEAT STRESS EQUIPMENT & FACILITIES HUMAN TISSUE PRESERVATION & STORAGE EQUIPMENT & FACILITIES BIOHAZARDOUS MATERIALS HANDLING LAR EQUIPMENT & FACILITIES TOXICOLOGY EVALUATION EQUIP & FACILITIES INCLUDE HYPERBARIC CHAMBERS TRANSMISSION & SCANNING ELECTRON MICROSCOPES FLUORESCENT ANYIBODY CELL SORTER & COMPUTER EXPERIMENTAL ANIMAL FACILITIES ANIMAL HOUSE & OPERATING ROOMS LAB EQUIPMENT & FACILITIES FOR BASIC & APPLIED BIOCHEMICAL MICROBIOLOGICAL & PSYCHOLOGICAL STUDIES

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INSTALLATION: MEDICAL RESEARCH UNIT NO.2

TAIPEI, TAIWAN

C.O. CAPT.KURT SORENSEN

SCI.DIR.DR.JOHN CROSS

|               | PROGRAM DA         | TA BY FIS | CAL YEAR (MILLION : | \$ )         |
|---------------|--------------------|-----------|---------------------|--------------|
| PROGRAM       |                    | 1978      | 1979                |              |
|               | (AC                | TUAL)     | (ACT + EST)         |              |
| TOTAL ROTGE   |                    | 1.864     | 1.942               |              |
| TOTAL PROCURI | EMENT              | 0.000     | 0.000               |              |
| TOTAL OEM     |                    | 0.000     | 0.000               |              |
| TOTAL OTHER   |                    | 0.695     | 0.734               |              |
| TOTAL ANNUAL  | LAB                | 2.559     | 2.676               |              |
| TOTAL INHOUS  | <b>E</b>           | 2.430     | 2.540               |              |
| TOTAL INHOUS  | E RDTGF            | 1.864     | 1.942               |              |
| ANNUAL OPERA  | TING COST          | 0.697     | 0.637               |              |
|               | PERSONNEL DATA     | (END OF   | FY 1978)            |              |
| PERSONNEL     | AUTHORIZED         | TOTAL     | TOTAL               | NON-         |
|               | STRENGTH           | PHD\$     | PROF                | PROF         |
| HILITARY      | 31                 | 9         | 12                  | 19           |
| CIVILIAN      | 5                  | 2         | 3                   | 2            |
| TOTAL         | 36                 | 11        | 15                  | 21           |
|               | SPACE A            | ND PROPER | TY                  | •            |
| ACRES         | SPACE (THOUSANDS O | F SQUARE  | FFFT) COST          | (MILLION \$) |
|               | LAB ADMIN          | OTHER     |                     |              |
|               |                    |           | _                   |              |

| ACRES | SPACE (THO |        | SQUARE FEE | <b>:</b> 7) | COST (MILL | TON \$) |
|-------|------------|--------|------------|-------------|------------|---------|
|       | LAB        | ADMIN  | OTHER      | TOTAL       | REAL PROP  | FQUIP   |
| 20    | 32.882     | 16.075 | 48.364     | 97.321      | 0.101      | 0.804   |

#### ...MISSION

CONDUCT RESEARCH AND DEVELOPMENT IN THE BIOMEDICAL SCIENCES. PROVIDE DATA ON INFECTIOUS DISEASES AND MEDICAL PROBLEMS OF MILITARY SIGNIFICANCE, RE COMMEND CONTROL MEASURES AND PROVIDE TRAINING IN RESEARCH METHODS AND TECHNIQUES.

### ...CURRENT IMPORTANT PROGRAMS

PREVALENCE AND DISTRIBUTION OF INFECTIOUS DISEASES IN ASIA.RESEARCH ON FILIARIASIS IN INDONESIA AND PHILIPPINES. EXPERIMENTAL AND IMMUNOLOGICAL STUDIES ON SCHISTOSOMIASIS AND FILIARIASIS.ASSCCIATION OF HEPATITIS B VI RUS AND LIVER DISEASE. EPIDEMICLOGY AND ECOLOGY OF ARTHROPOD BORNE DISEAS ES IN ASIA.

#### ...FUNCTIONS/EQUIPMENT/CAPABILITIES

CLINICAL STUDIES ON DIAGNOSIS AND TREATMENT OF TROPICAL DISEASES. EPIDEMM OLOGICAL STUDIES ON INFECTIOUS DISEASES ENDEMIC AND EPIDEMIC IN ASIA.ADE QUATE LAB FACILITIES FOR STUDIES ON VIRAL, BACTERIAL, PARASITIC AND ARTHRO POD BORNE DISEASES, LAB ANIMAL CARE FACILITIES, BIOCHEMISTRY AND PATHOLOGY LABS.RADIOISOTOPE FOUIPMENT.COMPUTER CAPABILITY

CATRO, EGYPT

#### INSTALLATION: MEDICAL RESEARCH UNIT NO.3

#### C. O. CAPT. RAYMOND H. WATTEN

| ı                     | PROGRAM DATA BY FISC | AL YEAR (MILLION \$ | )           |
|-----------------------|----------------------|---------------------|-------------|
| PROGRAM '             | 1978                 | 1979                |             |
|                       | (ACTUAL)             | (ACT + EST)         |             |
| TOTAL ROTGE           | 1.807                | 2.274               |             |
| TOTAL PROCUREMENT     | 0.000                | 0.000               |             |
| TOTAL DEM             | 0.000                | 0.000               |             |
| TOTAL OTHER           | 0.498                | 0.480               |             |
| TOTAL ANNUAL LAB      | 2.305                | 2.754               |             |
| TOTAL INHOUSE         | 2.256                | 2.610               |             |
| TOTAL INHOUSE ROTEE   | 1.758                | 2.130               |             |
| ANNUAL OPERATING COST | 0.000                | 0.000               |             |
| PERSO                 | NNEL DATA (END OF F  | Y 1978)             |             |
| PERSONNEL AUTHORIZ    | ED TOTAL             | TOTAL               | NON-        |
| STRENG                | TH PHDS              | PROF                | PROF        |
| MILITARY 2            |                      | 10                  | 17          |
| CIVILIAN 6            |                      | 36                  | 25          |
| TOTAL 8               | 8 8                  | 46                  | 42          |
|                       | SPACE AND PROPERT    | Υ                   |             |
| ACRES SPACE (T        | HOUSANDS OF SQUARE F | EET) COST (         | MILLION \$8 |
| LAB                   | ADMIN OTHER          | TOTAL REAL PR       | DP EQUIP    |
| 5 41.068              | 8.962 25.729         | 75.759 1.0          | 74 0.711    |

...MISSION

TO CONDUCT RESEARCH AND DEVELOPMENT ON INFECTIOUS DISEASES OF MILITARY IMPORTANCE THAT ARE ENDEMIC OR EPIDEMIC IN ITS ASSIGNED GEOGRAPHICAL AREA; AND, TO PERFORM SUCH OTHER FUNCTIONS AS MAY BE DIRECTED BY THE CHIEF, BUREAU OF MEDICINE AND SURGERY.

...CURRENT IMPORTANT PROGRAMS
MENINGITIS STUDY
PATHOPHYSIOLOGY OF SCHISTOSOMIASIS
ARTHROPOD VIRUS ISOLATIONS IN TICKS, MOSQUITOES, SANDFLIES
RIFT VALLEY EPIDEMIOLOGY, ECOLOGY, VIROLOGY, AND TREATMENT
IMMUNOLOGY OF HUMAN SCHISTOSOMIASIS

\*\*\*FUNCTIONS/EQUIPMENT/CAPABILITIES
TECHNICIAN TISSUE PROCESSOR, HEWLETT PACKARD MODEL 9100 CALCULATOR \*PICKER NUCLEAR MAGNASCANNER, PERKIN—ELMER ATOMIC ABSORPTION SPECTROPHOTOMETER, PERKIN—ELMER GAS CHROMATOGRAPH, COULTER BLOOD CELL COUNTER, CARDIOGRAPH, AO FLUORESCENT MICROSCOPE, GUILFORD MODEL 240 SPECTROPHOTOMETER, AMSCO AUTOCLAVES, BLOOD GAS APPARATUS, ANALYTIC SCANNER AND INTEGRATOR, UNICOM UV SPECTROPHOTOMETER, REVCO FREEZERS, METTLER BALANCES, CLIMATIZER. INDUSTRIAL REFRIGERATORS, DUCON MICROSCOPE, COLONOSCOPE, INCUBATOR, EDGECARD HOOD, AUTOMATIC PIPETTER, MICROTOME, PATIENTS WARD TO HOSPITALIZE SICK EGYPTIANS, PUBLIC WORKS FACILITY, WORLD'S MOST COMPLETE TICK COLLECTION AND MODERN LABORATORY TO STUDY DISEASES IN EGYPT, ILLUMINATOR OUTFIT, OIL—FIRED PORTABLE HOT HIGH PRESSURE CLEANER, MEDICAL LIBRARY.

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INSTALLATION: NATIONAL PARACHUTE TEST RANGE

EL CENTRO. CA.

C.O. CAPT. E.D. LIGHTER

TECH. DIR. MR H.C.FISH

|              | PROGRAM DA     | TA BY FISCA | L YEAR (MILLION | \$) |
|--------------|----------------|-------------|-----------------|-----|
| PROGRAM      |                | 1978        | 1979            |     |
|              | ( AC           | TUAL )      | (ACT + FST)     |     |
| TOTAL ROTEE  |                | 7.817       | 8.696           |     |
| TOTAL PROCUR | EMENT          | 1.070       | 0.400           |     |
| MAO JATOT    |                | 1.024       | 1.032           |     |
| TOTAL OTHER  |                | 4.706       | 3,603           |     |
| TOTAL ANNUAL | LAB            | 14.617      | 13.821          |     |
| TOTAL INHOUS | SF .           | 14.168      | 13.536          |     |
| TOTAL INHOUS | SE RDTEE       | 7.777       | 8.656           |     |
| ANNUAL OPERA | ITING COST     | 3.061       | 4.105           |     |
|              | PERSONNEL DATA | LEND OF FY  | 1978)           |     |
| PERSONNEL    | AUTHORIZED     | TOTAL       | TOTAL           |     |

|           | PERSUNNEL DATA | A LONG TO LONG LAND | 1978) |      |
|-----------|----------------|---------------------|-------|------|
| PERSONNEL | AUTHORIZED     | TOTAL               | TOTAL | NON- |
|           | STRENGTH       | PHDS                | PROF  | PROF |
| MILITARY  | 243            | 1                   | 7 4   | 224  |
| CIVILIAN  | 268            | 0                   | 25    | 243  |
| TOTAL     | 511            | 2                   | 44    | 467  |

|        |            | SPACE AN   | ND PROPERTY | <b>Y</b> |            |         |
|--------|------------|------------|-------------|----------|------------|---------|
| ACRES  | SPACE (THO | BUSANDS OF | F SQUARE FE | EETT     | COST (MILL | 10N \$1 |
|        | LAB        | ADM IN     | OTHER       | TOTAL    | REAL PROP  | EQUIP   |
| 484608 | 6.400      | 56.670     | 1142.407    | 1205.477 | 33.061     | 20.519  |

#### ...MISSION

CONDUCT ROTSE AND FOLLOW-ON ENGINEERING OF AERODYNAMIC DECELERATORS, ASSOCIATED SYSTEMS, ASSEMBLIES AND EQUIPMENT. AND TO PROVIDE COMMON RANGE, TECHNICAL AND BASE SUPPORT FOR UNITS OF OPERATING FORCES OF THE NAVY AND OTHER DOD APPROVED USERS.

...CURRENT IMPORTANT PROGRAMS
US-10S MARTIN BAKER ESCAPE SYSTEM FOR F-18
QUALIFICATION TEST OF SPACE SHUTTLE BOOSTER RECOVERY SYSTEM
SEAPAC WATER ACTUATED PROHITE RELEASE
PHYSIOLOGICAL RESEARCH - G EFFECT ON HEAD AND NECK
TAV 8A/B ESCAPE SYSTEM

DROP TEST RANGE LAND AND SALT WATER— SPACE POSITIONING PHOTO CCTV TELEMETRY INSTRUMENTATION— ADP FOR RANGE DATA— PARAMETERS SEA LEVEL TO BOKFT ENGINEERING SERVICES— EXPLORATORY DEVELOPEMENT ADVANCED AND BASIC DESIGN IN SERVICE ENGINEERING MATERIALS TESTING LAB PHYSIOLOGICAL EVAL. EQUIPMENT— PHOTO LAB STILL AND MOTION— 16MM TO TOMM AND COLOR 5000 FPS. AIRCRAFT— TRANSPORT DELIVERY LOW TO HIGH SPEED— VEHICLE DELIVERY— AIR TO AIR PHOTO COVERAGE— EJECTION SEAT TEST BED— PERSONNEL DELIVERY. INDUSTRIAL SHOPS— MACHINE SHOP— MODEL MAKING— VEHICLE AND PROTOTYPE PARACHUTE AND HARDWARE FABRICATION— CARPENTRY— WOODWORKING PAINTING METAL FABRICATION FOR WELD, BEND, HEAT TREAT AND MAGNAFLUX

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INSTALLATION: OCEAN R & D ACTIVITY

BAY ST.LOUIS.MS.

C.O. CAPY. C. G. DARRELL

TECH-DIR-DR-R-R- GOODMAN

|                | PROGRA         | M DATA BY FISCA | L YEAR (MILLION | 57           |
|----------------|----------------|-----------------|-----------------|--------------|
| PROGRAM        |                | 1978            | 1979            |              |
|                |                | (ACTUAL)        | (ACT + EST)     |              |
| TOTAL ROTEE    |                | 22.620          | 30.972          |              |
| TOTAL PROCUREM | ENT            | 0.000           | 0.000           |              |
| TOTAL DEM      |                | 0.275           | 0.498           |              |
| TOTAL OTHER    |                | 1.162           | 1.875           |              |
| TOTAL ANNUAL L | AB             | 24.057          | 33.345          |              |
| TOTAL INHOUSE  |                | 11.900          | 14.259          |              |
| TOTAL INHOUSE  | RDTEF          | 11.032          | 13.040          |              |
| ANNUAL OPERATI | NG COST        | 3.423           | 3.786           |              |
|                | PERSONNEL D    | ATA (FND OF FY  | ( 1970)         |              |
| PERSONNEL      | AUTHOR17ED     | TOTAL           | TOTAL           | NON-         |
|                | STRENGTH       | PHDS            | <b>የጸ</b> ባና    | PROF         |
| MILITARY       | 10             | 1               | 30              | 0            |
| CIVILIAN       | 230            | 35              | 133             | 97           |
| TOTAL          | 240            | 36              | 143             | 97           |
|                | SPA            | CE AND PROPERTY | •               |              |
| ACRES          | SPACE (THOUSAN | DS OF SQUARE FE | EET) COST       | (MILLION \$) |
|                | LAB AD         | MIN OTHER       | TOTAL REAL      | PROP EQUIP   |
| 5              | 27.454 18.     | 633 17.749      | 63,836 9.       | .000 3.200   |

#### ...MISSION

TO CARRY OUT A BROAD BASED RDT & FROGRAM IN OCEAN SCIENCE AND TECHNOLOGY WITH EMPHASIS ON UNDERSTANDING OCEAN PROCESSES THRU MEASUREMENT AND ANALYSIS, AND THE EFFECTS OF THIS OCEAN ENVIRONMENT ON NAVY SYSTEMS AND OPERATIONS. TACTICAL ASW ENVIRONMENTAL ACOUSTICS SUPPORT PROGRAM.

...CURRENT IMPORTANT PROGRAMS
ACOUSTIC BOTTOM INTERACTION PROGRAM IN SUPPORT OF DEEP OCEAN SURVEILANCE
OCEAN FORECASTING STUDIES TO DEVELOP MATHEMATICAL PREDICTION MODELS.
DEV TECHNIQUES TO EXTRACT OCEAN ENVIRON DATA FROM SATELLITE SENSORS.
VERSATILE EXPERIMENTAL KEVLAR ARRAY — DEPLOYABLE ACOUSTIC ARRAY.
TIME SCALE OCEANOGRAPHY AND INSTRUMENTATION DEVELOPMENT PROGRAM.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
WAVE-CURRENT INTERACTION SIMULATION FACILITY. INTERACTIVE DIGITAL
SATELLITE IMAGE PROCESSING SYSTEM TO HANDLE DATA FROM ALL IMAGING,
SATELLITES. DEEP OCEAN SEDIMENT CORE AND DREDGE SAMPLE DEPOSITORY-1728
S.Q. F.T. .VEKA IS A HYDROPHONE ( 3PRESSURE SENSOR, 310 METER APERATURE
KEVLAR ARRAY WHICH CAN BE DEPLOYED IN VARIOUS MODES FOR EXPERIMENTAL
MEASUREMENTS. X-RAY FLOURESCENCE, TRANSMISSION AND SCANNING. ELECTRON
MICROSCOPE FACILITY.

and the companion of a successful control the first defeated by the control of the first the said the control

SAN DIEGO.CA.

# INSTALLATION: OCFAN SYSTEMS CENTER

C. O. CAPY. R. R. GAVAZZI

TECH-DIR-DR-H-L- BLOOD

|               | PROGRAM DA                              | TA BY FISC  | AL YEAR (MILLION \$ | )           |
|---------------|-----------------------------------------|-------------|---------------------|-------------|
| PROGRAM       | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 1978        | 1979                | ,           |
| rkookan       | 1 AC                                    | TUAL)       | (ACT → EST)         |             |
| TOTAL ROTCE   | 140                                     | 135.895     | 155.181             |             |
| TOTAL PROCURE | 1 A C & A W                             | 27.744      | 24.386              |             |
|               | HEN!                                    | · · · ·     |                     |             |
| MAG JATOY     |                                         | 35.854      | 31.575              |             |
| YOTAL OTHER   |                                         | 8.522       | 6.410               |             |
| TOTAL ANNUAL  | LAB                                     | 208 015     | 218.052             |             |
| TOTAL INHOUSE | <u> </u>                                | 104.998     | 125.690             |             |
| TOTAL INHOUSE |                                         | 75.274      | 90.901              |             |
| ANNUAL OPERAT | - · · -                                 | 39.780      | 41.679              |             |
|               | 0505004451 0474                         | 1500 OF F   |                     |             |
|               | PERSONNEL DATA                          |             |                     |             |
| PERSONNEL     | AUTHORIZED                              | TOTAL       | TOTAL               | NON-        |
|               | STRENGTH                                | PHD3        | PROF                | PROF        |
| MILITARY      | 321                                     | 1           | 132                 | 189         |
| CIVILIAN      | 2493                                    | 165         | 1239                | 1254        |
| TOTAL         | 2814                                    | 166         | 1371                | 1443        |
|               | SPAPE A                                 | AND PROPERT | rv                  |             |
| ACRES         | SPACE (THOUSANDS                        |             |                     | MYFF TON 41 |
| AUNTS         |                                         | OTHER       | TOTAL REAL PR       |             |
| 2427          | 1300.727 213.808                        | 183 KKK     | 1.00 .000 3A.X      | 49 122,829  |

|         |           | SPACE AN   | U PROPERTY |          |           |          |
|---------|-----------|------------|------------|----------|-----------|----------|
| ACR E 5 | SPACE ITH | OUSANDS OF | SQUARE FE  | ET)      | COST (MIL | LION \$) |
|         | LAB       | ADMIN      | OTHER      | TOTAL    | REAL PROP | FQUIP    |
| 3637    | 1300.727  | 213.808    | 183.555    | 1698.090 | 36.549    | 122.829  |

## ...MISSION

TO BE THE PRINCIPAL NAVY RESEARCH, DEVELOPMENT, TEST AND EVALUATION CENTER FOR COMMAND CONTROL, COMMUNICATIONS, OCEAN SURVEYLLANCE, SURFACE AND AZE LAUNCHED UNDERSEA WEAPON SYS, AND SUPPORTIVE TECHNOLOGIES.

# ... CURRENT IMPORTANT PROGRAMS OCEAN SURVEILLANCE SYS WITH SOSUS UPDATE AND MULTI-SENSOR INTEGRATION COMMAND CONTROL AND COMMUNICATIONS SYS ARCHITECTURE AND ENGINEERING ADVANCED SURFACE AND AIR LAUNCHED UNDERSEA WEAPON AND FIRE CONTROL SYS TECHNOLOGY DEVELOPMENTS SUCH AS ADV MARINE BIO SYS, EXTERNAL STOWAGE AND LAUNCH, ARCTIC SUB OPS, OCEAN ENGINEERING AND ELECTRONIC WARFARE

...FUNCTIONS/EQUIPMENT/CAPABILITIES FACTLITIES AT SAN DIEGO AND HAWAIT LABS INCLUDE ARCTIC RESEARCH FACILITY: MICROWAVE AND MILLIMETER WAVE ANTENNA PATTERN RANGE COMPLEX: OCEANOGRAPHIC RESEARCH TOWER: STABLE SEMI-SUBMERGED PLATFORM: UNMANNED UNDERWATER TETHERED VEHICLES INCLUDING CURV III, SCAT, RUMS, AND SNOOPY; USS DOLPHIN, EXPERIMENTAL SUB; TRANSDUCER EVALUATION CENTER; ELECTRONICS DEVELOPMENT AND TEST LAB: MICROFLECTRONICS LAB COMPLEX: ACOUSTIC SIGNAL DAYA ANALYSIS AND CONVERS SYSTEM: SIMULATION AND REAL-TIME COMPUTER FACILITY FOR DEVELOPMENT OF ASM SYSTEMS: SHIP MOTION SIMULATOR: AND A BIO-SCIENCE FACILITY ENGAGED IN RESEARCH. TRAINING. AND HANDLING OF MARINE MAMMALS. OFF-STATION FACILITIES INCLUDE A DEEP WATER TRANSDUCER CALIBRATION FACILITY IN IDAMO AND VERY LOW FREQUENCY SOUNDER SITE IN ARIZONA

INSTALLATION: ORDNANCE MISSILF TEST FACILITY

WHITE SANDS, N.M.

C.O. CAPT. M.A. PETERSON JR. CH. ENG. MR. H.L. HENDON

| PRO                   | DGRAM DATA BY FISC | AL YEAR (MILLION | \$ )        |
|-----------------------|--------------------|------------------|-------------|
| PROGRAM               | 1978               | 1979             |             |
|                       | (ACTUAL)           | (ACT + FST)      |             |
| TOTAL ROTGE           | 2.935              | 4.147            |             |
| TOTAL PROCUREMENT     | 0.324              | 0.012            |             |
| TOTAL DEM             | 0.079              | 0.177            |             |
| TOTAL OTHER           | 1.574              | 1.282            |             |
| TOTAL ANNUAL LAB      | 4.912              | 5.618            |             |
| TOTAL INHOUSE         | 3.111              | 2.710            |             |
| TOTAL INHOUSE RDTGE   | 1.595              | 1.574            |             |
| ANNUAL OPERATING COST | 0.943              | 1.049            |             |
| PERSONNI              | FL DATA (END OF F  | Y 1978)          |             |
| PERSONNEL AUTHORIZED  | TOTAL              | TOTAL            | NON-        |
| STRENGTH              | PHDS               | PROF             | PROF        |
| MILITARY 96           | 2                  | 34               | 62          |
| CIVILIAN 54           | 0                  | 4                | 50          |
| TOTAL 150             | 1                  | 38               | 112         |
|                       | SPACE AND PROPERT  | <b>Y</b>         |             |
| ACRES SPACE (THO      | USANDS OF SQUARE F | EET) COST        | (MILLION S) |
| LAB                   | ADMIN OTHER        | TOTAL REAL P     | ROP EQUIP   |
| 88 108 <b>.</b> 566   | 30.539 78.694      | 217.799 5.       | 404 9.988   |

... MISSION

SUPPORT THE NAVY GUIDED MISSILF AND RESEARCH ROCKET PROGRAMS INCLUDING GROUND AND FLIGHT TESTING, ASSIST JOINT SERVICE LASER GUIDED WEAPONS COUNTERMEASURE TEST, PARTICIPATE IN THE OPERATION OF THE DOD INTEGRATED MISSILE LEST RANGE AT WHITE SANDS

...CURRENT IMPORTANT PROGRAMS
STANDARD MISSILE I AND 2/AEGIS FLIGHT TESTING
CRUISE MISSLE FLIGHT TESTING
RAN FLIGHT TESTING
VERTICAL LAUNCHER TESTING
UPPER ATMOSPHERE RESEARCH ROCKET LAUNCHING

...FUNCTIONS/EQUIPMENT/CAPABILITIES
FLIGHT TEST TERRIER/TARTAR/STANDARD/SAM GUJDED MISSILES AND PROJECTILES
LAUNCH AEROBEE 150, 170, 200, ARIES, STROBEE F, D, BLACK BRANT ORION
AND VARIOUS OTHER SOUNDING ROCKETS FOR UPPER ATMOSPHERIC STUDY
CONDUCT NAVY AIR MEAPONS TESTS
LAUNCH VARIOUS ROCKETS IN SUPPORT OF NASA PROJECTS
LAUNCH VARIOUS ROCKETS IN SUPPORT OF AIR FORCE PROJECTS
CONDUCT VARIOUS DEVELOPMENT TESTS FOR SSN AND SAM PROJECTS
PROVIDE DROME SUPFORT
ASSIST IN OPEVAL OF CRUISE MISSILE
MAINTAIN TARGET ECM EQUIPMENT
5-INCH GUIDED PROJECTILE LAUNCH CAPABILITY
PROVIDE WARHEAD AND EOD ANALYSIS ARENA

March to the second of the

INSTALLATION: PACIFIC MISSILE TEST CENTER

POINT MUGU.CA.

C.O. CAPT. J.C. WEAVER

TECH. DIR. MR. T.P. PERRY

|                      | PROGRAM DATA BY F   | ISCAL YEAR (MILLION | \$)  |
|----------------------|---------------------|---------------------|------|
| PROGRAM              | 1978                | 1979                |      |
|                      | (ACTUAL)            | (ACT + EST)         |      |
| TOTAL RDTEE          | 79.186              | 115.735             |      |
| TOTAL PROCUREMENT    | 57.234              | 65.678              |      |
| TOTAL OFM            | 32.943              | 34.466              |      |
| TOTAL OTHER          | 44.540              | 58.646              |      |
| TOTAL ANNUAL LAB     | 213.903             | 274.525             |      |
| TOTAL INHOUSE        | 134.819             | 174.873             |      |
| TOTAL INHOUSE ROTKE  | 55.430              |                     |      |
| ANNUAL OPERATING COS |                     |                     |      |
| PE                   | RSONNEL DATA (END C | DF FY 1978)         |      |
| PERSONNEL AUTHO      | RIZED TOTAL         | TOTAL               | NON- |
| STR                  | ENGTH PHOS          | PROF                | PROF |
| MILITARY             | 1061 3              | 3 270               | 791  |
| CTVILIAN             | 3890 9              | 1204                | 2686 |
| TOTAL                | 4951 12             | 1474                | 3477 |
|                      | SPACE AND PROP      | PERTY               |      |

|       |           | SPACE A       | ND PROPERT  | <b>Y</b> |           |          |
|-------|-----------|---------------|-------------|----------|-----------|----------|
| ACRES | SPACE (TH | OUSANDS D     | F SQUARE FI | EET)     | COST (MI  | LLION 3) |
|       | Ł AB      | <b>ADM TN</b> | OTHER       | TOTAL    | REAL PROP | EQUIP    |
| 27084 | 912.309   | 395.689       | 3514.572    | 4822.570 | 142.415   | 140.762  |

#### ...MISSION

PERFORM DEVELOPMENT TEST AND EVALUATION, DEVELOPMENT SUPPORT, FULLOW-ON ENGINEERING AND LOGISTICS AND TRAINING SUPPORT FOR NAVAL WEAPONS, SYSTEMS AND RELATED DEVICES. PROVIDE RANGE TECHNICAL AND BASE SUPPORT FOR FLEET USERS AND OTHER DEFENSE AND GOVERNMENT AGENCIES.

...CURRENT IMPORTANT PROGRAMS
TOMAHAWK CRUISE MISSILE
HARPOON ANTI-SHIPPING MISSILE
PHOENIX AIR-TO-AIR MISSILE
F-14 TACTICAL SOFTWARE
TRIDENT SUBMARINE-LAUNCHED BALLISTIC MISSILE

# ...FUNCTIONS/EQUIPMENT/CAPABILITIES

LABORATORIES-WEAPOM SIMULATION, SYSTEM INTEGRATION, ENVIRONMENTAL, ANACHOIC, ELECTRONIC COUNTERMEASURE, SOFTWARE SUPPORT. AIR AND SURFACE TRACKING RANGE-45000 SOUARE MILES/RADARS-FPS-16, FPQ-10, FPQ-12, MPS-75/THEODOLITES AND SINE SEXTANTS. RECEIVE, RECORD AND DISPLAY P, L AND S BAND TELEMTRY. REAL-TIME AND POST OPERATIONAL DATA REDUCTION FACILITIES. MISSILE AND TARGET LAUNCH PLATFORMS AND FACILITIES. COMMAND, CONTROL AND DESTRUCT FACILITIES. SHIP MOTION SIMULATION. USNS WHEELING-TRACKING, TELEMETRY, COMMAND, CONTROL AND DESTRUCT SHIP. MISSILE IMPACT LOCATION AND MISS-DISTANCE INDICATOR SYSTEMS. ALL-UP ROUND MISSILE TEST FACILITY. UNDERWATER TRACKING RANGE-1000 SQUARE MILES, 3-DIMENSIONAL 400-6000 FATHOMS.

and the second second

INSTALLATION: PERSONNEL RESEARCH & DEVELOPMENT CENTER

SAN DIEGO.CA.

15

70

2.176

C.O. CAPT. D.F. PARKER

MILITARY

CIVILIAN

1

TECH. DIR. DR. J.J. REGAN

|               | PROGRAM       | DATA BY FIS | CAL YEAR (MILLION | \$)  |
|---------------|---------------|-------------|-------------------|------|
| PROGRAM       |               | 1978        | 1979              |      |
|               |               | ACTUALT     | (ACT + FST)       |      |
| TOTAL RDT&E   |               | 14.092      | 13.223            |      |
| TOTAL PROCURE | MENT          | 0.392       | 0.301             |      |
| TOTAL DEM     |               | 3.283       | 1.657             |      |
| TOTAL OTHER   |               | 2.031       | 1.182             |      |
| TOTAL ANNUAL  | LAB           | 19.798      | 16.363            |      |
| TOTAL INHOUSE |               | 9.022       | 9.506             |      |
| TOTAL INHOUSE | E RDT&E       | 6.860       | 7.337             |      |
| ANNUAL OPERAT | TING COST     | 2.642       | 2.913             |      |
|               | PERSONNEL DAT | TA (FND OF  | FY 1978)          |      |
| PERSONNEL     | AUTHORIZED    | TOTAL       | TUTAL             | NON- |
|               | Strength      | PHDS        | PROF              | PROF |

| TOTAL | 289         |              | 79      | 204   | <b>,</b>  | 65           |
|-------|-------------|--------------|---------|-------|-----------|--------------|
|       |             | SPACE AND PR | OPERTY  |       | •         |              |
| ACRES | SPACE (THOU | SANDS OF SQL | JARE FF | ET )  | COST IMIL | LION \$)     |
|       | LAB         | ADMIN C      | THER    | TOTAL | REAL PROP | <b>EQUIP</b> |

78

0.000

195

0.387

63.580

...MISSION
PRINCIPLE NAVY ACTIVITY FOR CONDUCTING HUMAN RESOURCES ROTE IN THE AREAS OF MANFOWER PERSONNEL EDUCATION AND TRAINING AND TO SERVE AS THE COORD ACTIVITY FOR ALL SUCH ROTE FOR THE NAVY. PROVIDE SUPPORT TO CNM ACTIVITIES TO AUGMENT HUMAN FACTORS EFFORTS IN DEVELOPMENT OF NEW SYSTEM

...CURRENT IMPORTANT PROGRAMS
PERSONNEL ACQUISITION UTILIZATION AND EFFECTIVENESS
HUMAN PERFORMANCE IN NAVY SYSTEMS
PERSONNEL EDUCATION AND TRAINING
PERSONNEL MANPOWER MANAGEMENT
MANAGEMENT SYSTEMS

7.080

24

265

56.500

...FUNCTIONS/EQUIPMENT/CAPABILITIES
GENERAL AUTOMATION 18/30 COMPUTER SYSTEM WITH REMOTE JOB ENTRY TO OTHER
COMPUTER CENTERS PDP 12 LABORATORY INSTRUMENT CONTROL SYSTEM PDP 11/47
AUTOMATED TESTING AND TRAINING SYSTEM TEXTRONIC GRAPHIC TERMINALS
INTERFACING WITH NAVAL OCEAN SYSTEMS CENTER UNIVAC 1100 MAXICOMPUTER
PLATO IV TERMINALS INTERFACING WITH COMPUTER AT U OF ILLINOIS

WASHINGTON, D.C.

#### INSTALLATION: RESEARCH LABORATORY

C. O. CAPT E. F. HENIFIN

RSCH.DIR.DR. ALAN BERMAN

| C. O. CAT.    | . I d MEIVAL AN | KODINEDIKEDK | · NEAR DESCRIPTION |              |
|---------------|-----------------|--------------|--------------------|--------------|
|               | PROGRAM         | DATA BY FISH | CAL YEAR (MILLION  | \$)          |
| PROGRAM       | •               | 1978         | 1979               |              |
|               |                 | (ACTUAL)     | (ACT + FST)        |              |
| TOTAL ROTGE   |                 | 178.272      | 191.962            |              |
| TOTAL PROCURI | EMENT           | 1.699        | 4.533              |              |
| TOTAL DEM     |                 | 11.847       | 8.598              |              |
| TOTAL OTHER   |                 | 15.434       | 16.439             |              |
| TOTAL ANNUAL  | LAB             | 207.252      | 221.532            |              |
|               |                 |              |                    |              |
| TOTAL INHOUS! | F               | 161.382      | 170 <b>.</b> 922   |              |
| TOTAL INHOUSE | E RDT&E         | 132.402      | 141.352            |              |
| ANNUAL OPERAT | FING COST       | 49.075       | 54.932             |              |
|               | DEBCUNNET DA    | TA (END OF   | EV 10781           |              |
| PERSONNEL     | AUTHORIZED      |              | TOTAL              | NON-         |
| PERSONNEL     | STRENGTH        | PHOS         | PROF               | PROF         |
| MILITARY      | 146             | 0            | 32                 | 114          |
| CIVILIAN      | 3357            | 585          | 1554               | 1803         |
| TOTAL         | 3503            | 585          | 1586               | 1917         |
| ****          |                 | 2            |                    |              |
|               | SPAC            | E AND PROPER | TY                 |              |
| ACRES         | SPACE (THOUSAND | S OF SQUARE  | FEET) COST         | (MILLION \$) |
|               | LAB ADM         | IN OTHER     | TOTAL REAL         |              |
| <b>79</b> 8   | 2321.146 192.4  | 96 491.794   | 3005.436 91        | .892 88.917  |
|               |                 |              |                    |              |

...MISSION
TO CONDUCT A BROADLY BASED MULTIDISCIPLINARY PROGRAM OF SCIENTIFIC RESEARCH AND ADVANCED TECHNOLOGICAL DEVELOPMENT DIRECTED TOWARD NEW AND IMPROVED MATERIALS, FQUIPMENT, TECHNIQUES, SYSTEMS, AND RELATED OPERATIONAL PROCEDURES FOR THE NAVY

...CURRENT IMPORTANT PROGRAMS
NATO SEAGNAT
EFFECTIVENESS OF NAVAL ELECTRONICS WARFARE SYSTEMS
ADVANCED ACOUSTIC ANTI-SUBMARINE WARFARE SURVEILLANCE PROGRAM
SATELLITE PROGRAMS
ADVANCED HIGH PERFORMANCE MATERIALS

\*\*\*FUNCTIONS/EQUIPMENT/CAPABILITIES
PRINCIPAL RESEARCH AND DEVELOPMENT LABORATORY OF THE NAVY. PRIMARY AREAS ARE MATERIALS SCIENCE AND TECHNOLOGY, SPACE SCIENCE AND TECHNOLOGY, RADAR, ELECTRONIC WARFARE, LASER TECHNOLOGY, OPTICS, OPTICAL WARFARE, ELECTRONIC DEVICES, PLASMA AND NUCLEAR PHYSICS, INTELLIGENCE SUPPORT, UNDERSEA SURVEILLANCE, OCEAN SCIENCE AND TECHNOLOGY. MAJOR FACILITIES INCLUDE ONE SHIP FOR ACQUISTIC ASW RESEARCH, OCEANOGRAPHY, AND DEEP OCEAN SEARCH, MAJOR ACQUISTIC STANDARD AND CALIBRATION FACILITIES. HIGH LEVEL RADIATION LABORATORY. THREE NUCLEAR PARTICLE ACCELERATORS. DIVERSE HIGH ENERGY LASERS. 200 KILOGAUSS HIGH FIELD MAGNET FACILITY. SPACE SIMULATION FACILITIES. MAJOR PLASMA PHYSICS FACILITIES. ELECTRONIC WARFARE CENTRAL TARGET SIMULATOR.

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INSTALLATION: SUBMARINE MEDICAL RESEARCH LABORATORY

GROTON .CY .

#### C. D. CDR. R. A. MARGULIES

|               | PROGRAI        | 4 DATA BY FISC | AL YEAR (MILLION | <b>5</b> )   |
|---------------|----------------|----------------|------------------|--------------|
| PROGRAM       |                | 1978           | 1979 '           |              |
|               |                | (ACTUAL)       | (ACT + FST)      |              |
| TOTAL ROTGE   |                | 1.797          | 1.668            |              |
| TOTAL PROCURE | MENT           | 0.000          | 0.000            |              |
| TOTAL DEM     |                | 0.069          | 0.019            |              |
| TOTAL OTHER   |                | 0.483          | 0.489            |              |
| TOTAL ANNUAL  | LAB            | 2.349          | 2.176            |              |
| TOTAL INHOUSE | •              | 2.349          | 2.176            |              |
| TOTAL INHOUSE | ROTGE          | 1.797          | 1.668            |              |
| ANNUAL OPERAT | ING COST       | 0.560          | 0.584            |              |
|               | PFRSONNEL D    | ATA (END OF F  | Y 1978)          |              |
| PERSONNEL     | AUTHORIZED     | TOTAL          | TOTAL            | NON-         |
|               | STR ENGTH      | PHDS           | PROF             | PROF         |
| MILITARY      | 32             | 7              | 12               | 20           |
| CIVILIAN      | 69             | 11             | 32               | 37           |
| TOTAL         | 101            | 18             | 44               | 57           |
|               | SPA            | CE AND PROPERT | Y                |              |
| ACRES         | SPACE (THOUSAN | DS OF SQUARE P | FFET) COST       | (MILLION \$) |
|               | LAB AD         | MIN OTHER      | TOTAL REAL       | PROP EQUIP   |

# ...MISSION

TO CONDUCT BASIC AND APPLIED RESEARCH IN SURMARINE AND DIVING MEDICINE CLOSED ENVIRONMENT IN AREAS OF PHYSIOLOGY, PSYCHOLOGY, VISION, AUDITION, HUMAN FACTORS, MILITARY APPLICATIONS, TO MEET NAVY REQUIREMENTS. FURNISH PESEARCH AND MEDICAL SUPPORT TO SUB AND DIVING SHORE AND FLEET COMMANDS.

0.000

54.613

1.105

Land to the said of the said o

1.769

14.099

40.514

...CURRENT IMPORTANT PROGRAMS
DYSBARIC OSTEONECROSIS IN NAVAL DIVERS
SATURATION-EXCURSION AIR DIVES IN SHALLOW DEPTHS
COMPUTER ASSISTED DIAGNOSIS PROGRAMS FOR CORPSMEN ABOARD NUCLEAR SUBS
AUDITORY AND VISUAL TESTS AND EVALUATION OF SUBMARINERS AND DIVERS
HUMAN FACTORS EVALUATION OF CREWS IN SUBMARINE INFORMATION PROCESSING

\*\*\*FUNCTIONS/EQUIPMENT/CAPABILITIES
BASIC AND APPLIED RESFARCH COMPFTENCE IN CARDIOPULMONARY, THERMAL, AND
HYPERBARIC PHYSIOLOGY, BIOCHEMISTRY, AUDITION, VISION, HUMAN FACTORS ENG.,
PERSONNEL ASSESSMENT, HYPERBARIC AND MECHNICAL SERVICES, ELECTRICAL IN—
STRUMENYATION AND REPAIRS, COMPUTER APPLICATIONS, VETERINARY SCIENCES,
SUB.MED.RESEARCH LIBRARY, GRAPHIC ARTS, PHOTOGRAPHY, MODEL MAKING, HYPERBARIC CHAMBERS, HUMAN-150 PSI, ANIMAL-300 AND 1000 PSI, ENVIR. CONTROL CHAMBERS
, MEDICAL EXAM SUITE, SURGICAL SUITE COMPUTER APPLICATION FACILITY, CLOSED
CIRCUITRY SYSTEM, GAS CHROMATOGRAPHS, EEG, DOPPLER SYSTEM, SONAR STACK SIMULATION TEST SYSTEM, FLUIDIC CONTROL CONSOLE, AIR ION MONITORING SYSTEM,
UNDERWATER TV SYSTEM.

C. O. CAPT. P. L. ANDERSON

TECH.DIR.MR. J.E. COLVARD

|                      | PROGRAM DATA BY FI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SCAL YEAR (MILLION | (2)         |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------|
| PROGRAM              | 1978                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1979               | •           |
|                      | (ACTUAL)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (ACT + FST)        |             |
| YOTAL ROTEE          | 165.692                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 184.356            |             |
| TOTAL PROCUREMENT    | 42.545                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |             |
| TOTAL DEM            | 36.698                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 34.000             |             |
| TOTAL OTHER          | 25.096                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 23.678             |             |
| TOTAL ANNUAL LAB     | 269.991                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 271.821            |             |
| TOTAL INHOUSE        | 134.317                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 157.999            |             |
| TOTAL INHOUSE ROTEE  | 87.614                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 101.341            |             |
| ANNUAL OPERATING COS | 7 60.572                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 65.520             |             |
| PE                   | RSONNEL DATA (END OF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | F FY 1978)         |             |
| PERSONNEL AUTHO      | RIZED TOTAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | TOTAL              | NON-        |
| STR                  | ENGTH PHDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PROF               | PROF        |
| MILITARY             | 125 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 44                 | 61          |
| CIVILIAN             | 4763 239                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1936               | 2827        |
| TOTAL                | 4888 241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1980               | 2908        |
|                      | SPACE AND PROPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | RTY                |             |
| ACRES SPACE          | CTHOUSANDS OF SQUARE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | FEFT) COST         | (MILLION S) |
|                      | THE STATE OF THE S |                    |             |

... MISSION

5381

THE PRINCIPAL NAVY RESEARCH, DEVELOPMENT & EVALUATION CENTER FOR SURFACE SHIP WEAPONS SYSTEMS, ORDNANCE, MINES, AND STRATEGIC SYSTEMS SUPPORT

971,765

2797.926

93.726

86.152

# ... CURRENT IMPORTANT PROGRAMS

STRATEGIC SYSTEMS-TRIDENT, POSEIDON, POLARIS, MKBOO REENTRY BODY, SAFETY.
AFGIS COMBAT SYSTEMS LEAD CENTER, TERRIER, TARTAR, STANDARD MISSILE SYSTEM,
GUN SYSTEMS-MK71, MK75, MK45, HIFRAG AMMO, PHALANX CIWS, GUIDED AMMO, USMC SYS
UNDERWATER NEAPONS-TORPEDO MK4R, MINES, MK6O, CAPTOR, QUICKSTRIKE, PRAM, SLMM,
ELECTROMAGNETIC SYSTEMS-ARM COUNTERMEASURES, INTEL COLL, OTH/DC6T, FLT SUP.

# ...FUNCTIONS/FQUIPMENT/CAPABILITIES

1672.370 153.791

FACILITIES INCLUDE-WIND TUNNELS TO MACH 20.BALLISTIC RANGES.1.75 MILLION GAL.HYDROBALLISTIC TANK.MAGNETIC STRUCTURE FACILITY FOR SHIP & SUR MODEL & SATELLITES.FRM DISCPAC PRODUCTION FACILITY.FACILITIES FOR ASSURANCE OF COMPUTER PROGRAMS FOR STRATEGIC AND TACTICAL MISSILE SYS.INTELLIGENCE PROCESSING SYS.GUNNERY AND MISSILE RANGE COMPLEX INCLUDING LAND-BASED DEVELOPMENT SITES FOR WEAPON CONTROL SYS.ELECTROMAGNETIC VULNERABILITY FACILITIES BOTH NUCLEAR & NON-NUCLEAR EFFECTS.FACILITIES FOR WARHEAD CHARACTERIZATION & DAMAGE TO TARGETS.DEVELOP & TEST FACILITIES FOR LASER AND ELECTRO-OPTICS SUBSYSTEMS.NONDESTRUCTIVE TESTING FACILITIES.DEFP WATER OFFSHORE FACILITIES FOR MINE SYS MOBILE TACTICAL WAR GAME FAC, EXPLOSIVES DEVELOPMENT FACILITIES.EXTENSIVE SCIENTIFIC COMPUTER FACILITY FUZES.EXPLOSIVES.MATERIAL.AND MARINE CORP SUPPORT FACILITIES

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#### INSTALLATION: UNDERSEA RANGES DEPARTMENT

NEWPORT.RI.

C. O. CAPT. A. S. MCLAREN

SCI-DIR.C.S. SOLIDZY

| PROGRAM | DATA | BY | FISCAL | YEAR | (MILLION | 5) |
|---------|------|----|--------|------|----------|----|
|         |      |    |        |      |          |    |

| 1978     | 1979                                                   |
|----------|--------------------------------------------------------|
| (ACTUAL) | (ACT + FST)                                            |
| 18.422   | 18.866                                                 |
| 0.342    | 0.136                                                  |
| 5.545    | *.207                                                  |
| 0.782    | 0.531                                                  |
| 25.091   | 24.740                                                 |
| 18.059   | 16.601                                                 |
| 17.188   | 15.791                                                 |
| 0.000    | 0.000                                                  |
|          | (ACTUAL) 18.422 0.342 5.545 0.782 25.091 18.059 17.188 |

| BEKSIMNEL DAT | A (SND UP PY | 19781         |      |
|---------------|--------------|---------------|------|
| AUTHORITED    | TOTAL        | TOTAL         | NON- |
| STRENGTH      | PHDS         | <b>PR በ</b> F | PROF |
| 4 4           | 0            | 11            | 33   |
|               |              |               |      |

 MILYTARY
 44
 0
 11
 33

 CIVILIAN
 36
 1
 26
 10

 TOTAL
 80
 1
 37
 43

SPACE AND PROPERTY

| ACRES | SPACE (THO | USANDS OF | SQUARF FE | ET)     | COST (MILL | ION \$) |
|-------|------------|-----------|-----------|---------|------------|---------|
|       | LAR        | ADM IN    | OTHER     | TOTAL   | REAL PROP  | FQUIP   |
| 1042  | 70.603     | 17.339    | 306-012   | 393.954 | 23.899     | 1.282   |

#### ...MISSION

PERSONNEL

TO PROVIDE DEEP WATER DEV AND OPRTNL T AND E FOLTYS FOR UNDRWTR ACSTIC MESRMNTS, TSTNG, AND CALBRING SONRS.PROVIDE ACURAT UNDWIR, SRECE, AND IN-AIR TROKNG DATA ON SHIPS, SUBS, AIRCRAFT AND WPN SYSTEMS.

...CURRENT IMPORTANT PROGRAMS
MK48 WEAPON SYSTEMS TRAINING CERTIFICATION PROGRAM
SHIP SILENCING PROGRAM
FLEET TRAINING/SUPROC.SUBEX.SHAREM
AIRBORNE MINEX : TORPEX/RANGEX
R AND D TESTS/CAPTOR/MP SONAR/TOWED ARRAYS/LAMPS/BQQ 5/DICASS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
HIGHLY ADVANCED AND INSTRUMENTED ASW WEAPONS, SONAR AND FORACS TEST MEA-

SURFMENT RANGES IN SUPPORT OF NAVY ASM AND UNDERSEA R AND D PROGRAMS, AND ASM FLEET ASSESMENT AND OPERATIONAL READINESS.

INSTALLATION: UNDERWATER SYSTEMS CENTER

NEWPORT . RI.

C.O. CAPT.A.S. MCLAREN

TECH-DIR-UR-C. NICYOLOS PRYOR

|                    | PROGRAM D      | ATA BY FISCA | L YEAR (MILLION | \$1  |
|--------------------|----------------|--------------|-----------------|------|
| PROGRAM            |                | 1978         | 1979            |      |
|                    | (A)            | CTUAL)       | (ACT + FST)     |      |
| TOTAL ROTER        |                | 97.118       | 114.260         |      |
| TOTAL PROCUREMENT  |                | 88.070       | 68.916          |      |
| TOTAL DEM          |                | 57.438       | 62.572          |      |
| TOTAL OTHER        |                | 15.704       | 8.216           |      |
| TOTAL ANNUAL LAB   |                | 258.330      | 253.966         |      |
|                    |                |              |                 |      |
| IOTAL INHOUSE      |                | 125.988      | 121.569         |      |
| TOTAL INHOUSE ROTE | F              | 48.898       | 61.179          |      |
| ANNUAL OPERATING C | OST            | 31.919       | 35.864          |      |
|                    | PERSONNEL DATA | LEND OF F    | Y 1978)         |      |
|                    | HORIZED        | TOTAL        | TOTAL           | NON- |
|                    | TRENGTH        | PHDS         | PROF            | PROF |
| MILITARY           | 100            | 1            | 34              | 66   |
| CIVILIAN           | 2806           | 100          | 1455            | 1351 |
| TOTAL              | 2906           | 101          | 1489            | 1417 |
|                    |                |              |                 |      |

| SPACE AND PROPERTY |           |            |           |          |            |          |
|--------------------|-----------|------------|-----------|----------|------------|----------|
| ACRES              | SPACE (TH | DUSANDS OF | SOUARE FE | FT )     | COST (MILI | LION \$7 |
|                    | LAB       | ADMIN      | OTHER:    | TOTAL    | REAL PROP  | EQUIP    |
| 359                | 999.660   | 105.446    | 560.578   | 1665.684 | 46.111     | 45.073   |

...MISSION
TO BE THE PRINCIPAL NAVY ROT AND E CENTER FOR SUBMARINE WARFARF AND SUBMARINE WEAPON SYSTEMS.

...CURRENT IMPORTANT PROGRAMS
ADVNCD TECHNGY IN U/W ACOUTCS.OCEAN ENGRNG.INFO PROCSNG.WFAPONRY
DESGN. DEV AND EVAL U/W COMBAT SUB SYSTMS INCONG SURFC SHIP SONAR MODRNZTN AND RTD AND E FOR OVERALL U/W COMBAT (TRIDENT,688,FTC) AND DESGN,
DEV AND EVAL OF U/W TARGET SYSTEMS AND MOBILE/FIXD U/W TEST RANGES
INTRODUCE TO FLEET AND IN-SERVICE ENGINEERING OF MK 48

\*\*\*FUNCTIONS/EQUIPMENT/CAPABILITIES
PRIMARY IN-HSE R AND D CAPABLITY FOR NAVY AND MARINE CRP SYSTEMS, SUBSYSTEMS AND TECHNLGYS FOR SONAR SYSTMS (HULL-TOND/SUB COMCTNS SYSTMS
INTEGRTH/SUB ANTNA SYSTMS). UNTR WEAPON SYSTMS/UNTR TARGT SYSTMS/UNTR
ACOUSTC PROGTN (LANT AND MED) UNTR RNGF TECHNLGY/PEUINESS OF TN-SERVICE
SHIPBOARD UNTR SYSTMS/ASW SUP, CINCLNT. TORPEDO TEST RNGES (FIXED/PORTBLE) SHLOW AND DP WTR.ASW WEAPON FIRE CNTRL RED FACILITY.ASW WEAPON
LAUNCHNG DEVCE R AND D FACLITY.QLTY ENGRNG, EVALTN AND RELIABLTY LAB.BER
MUDA RSCH FACLTY.TORPDO PROPULSN TEST FACLTY. ELECTROMAGTIC FACILITY.SYSTMS CRTIFCTN AND INTGTN FACILTY.ACOUSTC MSRMNT AND XDUCER R AND E FACLTY, TORPEDO TEST RANGE. INSTRMNTN SHETER.ACOUSTC RNGE.AUTEC.AZORES
FIXED ACOUSTIC RANGE.

The will make a select the hill the the Date ball to the hill and the

INSTALLATION: WEAPONS CENTER

CHINA LAKE, CA.

C.O. RADM. K. L. HARRIS

TECH.DIR.R.M. HILLYER

|                | PROGRAM          | DATA BY FISC. | AL YEAR (MILLION \$ | )           |
|----------------|------------------|---------------|---------------------|-------------|
| PROGRAM        |                  | 1978          | 1979                |             |
|                | (                | ACTUALI       | (ACT + FST)         |             |
| TUYAL RDTGE    |                  | 145.745       | 162.338             |             |
| TOTAL PROCUREM | ENT              | 54.690        | 33.593              |             |
| TOTAL DAM      |                  | 16.008        | 14.999              |             |
| TOTAL OTHER    |                  | 33.390        | 35.686              |             |
| TOTAL ANNUAL L | AB               | 249.833       | 246.616             |             |
| TOTAL INHOUSE  |                  | 132.774       | 161.438             |             |
| TOTAL INHOUSE  | RDT&E            | 86.486        | 103.993             |             |
| ANNUAL OPERATI | NG COST          | 34.490        | 39.436              |             |
|                | PERSONNEL DAT    | A (FND OF F   | Y 1978)             |             |
| PERSONNEL      | AUTHORIZED       | TOTAL         | TOYAL               | NON-        |
|                | STRENGTH         | PHDS          | PROF                | PROF        |
| MILITARY       | 513              | 0             | 39                  | 474         |
| CIVILIAN       | 3969             | 127           | 1387                | 2582        |
| TOTAL          | 4482             | 127           | 1426                | 3056        |
|                | SPACE            | AND PROPERT   | Y                   |             |
| ACRES .        | SPACE (THOUSANDS | OF SQUARE F   | EET) COST (         | MILLION \$) |
|                | LAB ADMI         | N OTHER       | TOTAL REAL PR       | OP EQUIP    |
| 1094228        | 1385.564 429.12  | 8 4545.132    | 6359.824 226.4      | 24 94.860   |

#### ...MISSION

THE PRINCIPAL NAVY ROTGE CENTER FOR AIR WARFARE SYSTEMS, EXCEPT ANTI-SUBHARINE WARFARE SYSTEMS, AND MISSILE WEAPON SYSTEMS.

# ... CURRENT IMPORTANT PROGRAMS

ELECTRONIC WARFARE - ANTI-RADIATION MISSILES AGM-45 SHRIKE, AGM-88 HARM ANTI-AIR MISSILES AIM-9H/L/M SIDEWINDER, AIM/RIM-7F/M SPARROW, MSL COMPT ANTI-SURFACE WFAPONS A/RGM-84 HARPOON, FAE, ADVANCED TACTICAL MISSILES TAC A/C SYSTEMS INTEGRATION A-7E/D, A-6E, AV-88, F/A-18, A/C SURV/VULN T AND E OF AIR/SURFACE-LAUNCHED WPNS, FW EQPTS, TACTICS, A/C WPN SYSTEMS

# ...FUNCTIONS/EQUIPMENT/CAPARILITIES

CONDUCT IN-HOUSE RESEARCH AND ESTABLISH AND MAINTAIN PRIMARY IN-HOUSE DEVELOPMENT, TEST, EVALUATION, AND IN-SERVICE ENGINEERING SUPPORT FOR SPECIFIC NAVY AND MARINE CORPS PRODUCTS SUCH AS ANTI-AIR MISSILES, ANTI-SURFACE MEAPONS, DEFENSE PENETRATION SYSTEMS, INTEGRATED TACTICAL AIRCRAFT SYSTEMS. FACILITIES INCLUDE MICHELSON LAB, ELECTRONIC WARFARE RANGES, SOLYD STAYE DEVICES LAB, ENCOUNTER SYMULATION LAB, PROPULSION RESEARCH LAB, MICROFLECTRONICS FACILITY, EXPLOSIVES R&D FACILITY, GROUND AND AIRCRAFT RANGES, EXTERIOR AND TERMINAL BALLISTICS RANGES, ARMITAGE AIR FIELD, AIRCRAFT SURVIVABILITY FACILITY, SUPERSONIC TEST TRACKS, MICROWAVE ANECHOIC FACILITIES, AND LASER LAB.

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0.926

9.600

C. O. CAPT. J. J. LAHR

TECH-DIR.MR.E.G. GREWIS

|               | PROGR      | AM DATA BY FIS | CAL YEAR IMILLION | \$)          |
|---------------|------------|----------------|-------------------|--------------|
| PROGRAM       |            | 1978           | 1979              |              |
|               | •          | (ACTUAL)       | (ACT + EST)       |              |
| TOTAL ROTGE   |            | 2.406          | 2.606             |              |
| TOTAL PROCURE | MENT       | 0.916          | 1.000             |              |
| TOTAL DEM     |            | 1.307          | 1.400             |              |
| TOTAL OTHER   |            | 2.892          | 3.222             |              |
| TOTAL ANNUAL  | LAB        | 7.521          | 8.228             |              |
| TOTAL INHOUSE |            | 7.282          | 8.228             |              |
| TOTAL INHOUSE |            | 2.406          | 2.606             |              |
| ANNUAL OPERAT |            | 1.280          | 1.327             |              |
|               | PERSONNEL  | DATA (END OF   | FY 1978)          |              |
| PERSONNE      | AUTHORIZED | TOTAL          | TOTAL             | NON-         |
|               | STRENGTH   | PHDS           | PROF              | PROF         |
| MILITARY      | 143        | 1              | 25                | 118          |
| CIVILIAM      | 111        | 2              | 56                | 55           |
| TOTAL         | 254        | 3              | 81                | 173          |
|               | \$P        | ACE AND PROPER | TY                |              |
| ACRES         |            | NDS OF SQUARE  |                   | (MILLION \$) |
|               |            | OMIN OTHER     |                   |              |

#### ...MISSION

MISSION-PERFORM TESTS, EVALUATIONS, AND TECHNICAL SUPPORT FOR USN NUCLEAR WEAPON SYSTEMS. PLAN AND COORDINATE THE NAVY NUCLEAR WEAPONS SAFETY PROGRAM. PROVIDE TECHNICAL ASSISTANCE AND ADVICE TO PRESIDENT BOARD OF INSPECTION AND SURVEY. ACT AS SUB-AREA COORDINATOR FOR COMEIGHT.

94.926

148.918

53.592

...CURRENT IMPORTANT PROGRAMS
SUPPORT THE DOF-DOD DEVELOPMENTAL PROGRAM FOR TOMAHAWK.
SUPPORT THE DOE-DOD DEVELOPMENTAL PROGRAM FOR STANDARD MISSILE-2.
ASSIST IN PROVIDING F/A-1R AIRCRAFT WITH A NUCLEAR WEAPONS CAPABILITY.
PROVIDE SUPPORT FOR THE ASW CONCEPTION STUDY.
PARTICIPATE IN THE JOINT USN/USAF AIRBORNE LASER LABORATORY TESTS.

#### ... FUNCTIONS/EQUIPMENT/CAPABILITIES

0-400

CAPABILITIES—ON USN NUCLEAR WEAPON SYSTEMS: CONDUCT SAFETY STUDIES; SAFETY ANALYSES; SURVIVABILITY AND EFFECTS STUDIES; ANALYZE ACCIDENTS/INCIDENTS, UNSATISFACTORY REPORTS, AND CAPABILITY INSPECTION REPORTS; DEVELOP EMERGENCY DESTRUCT/DENIAL/DISABLE PROCEDURES; ASSIST ON INSPECTION AND SURVEY OF NUCLEAR CAPABLE SHIPS AND AIRCRAFT; DEVELOP AIRCRAFT LOADING MANUALS AND CHECKLISTS; PARTICIPATE IN DOD—DOE DEVELOPMENT EFFORT; EVALUATE AIRCRAFT SUSPENSION, RELEASE, AND ARMING SYSTEMS, BOMB DUMMY UNITS, LOADING HANDLING AND TRAINING SHAPES; DEVELOP MILITARY CHARACTERISTICS, INTERFACE DRAWINGS, SAFETY AND ENVIRONMENTAL CRITERIA; REPRESENT USN AND/OR CONDUCT VARIOUS MEFTINGS OR SPECIAL DEVELOPMENT OR APPLICATION STUDIES; ACT AS DOE, DNA, AND OTHER SERVICE CONTACT. DEVELOP AND/OR REVIEW TECHNICAL PUBLICATIONS. SUPPORT NLO JOINT NUCLEAR PUBLICATION SYSTEM.

Land to the second of the seco

INSTALLATION: AFRO PROPULSION LABORATORY

WFAFB, OH.

CDR.COL. GEORGE E. STRAND CH.SCI.DR.HANS VON CHAIN

|                       | PROGRAM DATA BY FISC | CAL YEAR (MILLION \$) |
|-----------------------|----------------------|-----------------------|
| PROGRAM               | 1978                 | 1979                  |
|                       | (ACTUAL)             | (ACY + ESY)           |
| TOTAL ROTEE           | 76.102               | 85.969                |
| TOTAL PROCUREMENT     | 0.000                | 0.000                 |
| TOTAL OGM             | · 0.000              | 0.000                 |
| TOTAL OTHER           | 1.120                | 1.181                 |
| TOTAL ANNUAL LAB      | 77.222               | 87.150                |
| TOTAL INHOUSE         | 14.053               | 14.870                |
| TOTAL INHOUSE ROTEF   | 12.933               | 13.689                |
| ANNUAL OPERATING COST | 2,964                | 3.875 .               |
| 250                   |                      | Part & Arma &         |

|           | PERSONNEL DATA | TEND OF FY | ( 1978) |      |
|-----------|----------------|------------|---------|------|
| PERSONNEL | AUTHORIZED     | TOTAL      | TOTAL   | NON- |
|           | STRENGTH       | PHDS       | PROF    | PROF |
| MILITARY  | 51             | 8          | 43      | 8    |
| CIVILIAN  | 382            | 24         | 208     | 174  |
| TOTAL     | 433            | 32         | 251     | 182  |

| SPACE AND PROPERTY |            |           |           |         |           |          |
|--------------------|------------|-----------|-----------|---------|-----------|----------|
| ACRES              | SPACE (THO | USANDS OF | SQUARE FE | ET }    | COST (MIL | LION \$1 |
|                    | LAB        | ADMIN     | OTHER     | TOTAL   | REAL PROP | EQUIP    |
| 40                 | 229.490    | 41.784    | 105.665   | 376.939 | 20.850    | 18,108   |

# ...MISSION

PLAN, FORMULATE AND EXECUTE RESEARCH AND EXPLORATORY, ADVANCED AND PRO-TOTYPE DEVELOPMENT PROGRAMS IN AIR-BREATHING PROPULSION. AEROSPACE POWER GENERATION AND DISTRIBUTION, AIPCRAFT FUELS, FUEL AND LUBRICATION SYS-TEMS, AND FIRE PROTECTION. PROVIDE OPERATIONAL AND SYSTEMS SUPPORT.

... CURRENT IMPORTANT PROGRAMS ADVANCED TURBINE ENGINE TECHNULOGY DEMONSTRATORS OPTIM ZF AVAILABILITY AND COST OF AVIATION TURBINE FUELS VARIABLE CYCLE ENGINES FOR MULTI-MISSION AIRCRAFT RAMJETS FOR TACTICAL AND STRATEGIC KISSILES AIRBORNE HIGH POWER GENERATION AND CONDITIONING

#### ...FUNCTIONS/EQUIPMENT/CAPABILITIES

TURBINE ENGINE CONTROL TEST FAC, BATTERY DEVELOPMENT AND TEST FAC, MHD GENERATOR, LUBRICANT RIGS, SEAL TEST RIGS, BEARING RIGS, FUEL HANDLING FAC, FIRE RESEARCH LAB, COKER LAB, FUEL ANALYSIS LAB, COMBUSTION FAC, ROTOR TEST FAC, 6 SEA LEVEL TEST STANDS TO 60,000 LB THRUST, 2 TURBINE ENGINE ALTITUDE CELLS TO 5,000 LB THRUST-MACH 1.5-50,000 FT, 2 PROPELLER WHIRL RIGS TO 10,000 HP. DIRECT CONNECT RAMJET TEST FAC. RAMJET COMPO-LCNTS LAB, ELECTRO AERODYNAMIC LASER, HIGH TEMPERATURE TURBINE COMPONENT TEST FAC, SAND EROSION RIG, AIRCRAFT ELECTRICAL POWER FAC WITH THREE 350 HP DRIVE SOURCES AND AIRCRAFT SIMULATORS, VACUUM CHAMBERS, SUPERCON-DUCTIVITY LAB, HIGH POWER LAB TO 5 MW, THERMAL ENERGY STORAGE LAB, HYDRAULICS LAB, PLASMA PHYSICS LAB, HOLOGRAPHY LAB, COMPRESSOR TEST FAC

Same the second of the second

EGLIN AFB, FL.

CDR.MG. ROSERT M. BOND

|                       | PROGRAM DATA BY FISCAL | YEAR (MILLION \$) |
|-----------------------|------------------------|-------------------|
| PROGRAM               | 1978                   | 1979              |
|                       | (ACTUAL) (             | ACT + EST)        |
| TOTAL ROTEE           | 259.916                | 356.223           |
| TOTAL PROCUREMENT     | 447.749                | 363.756           |
| TOTAL OEM             | 16.898                 | 7.004             |
| TOTAL OTHER           | 73.823                 | 76.571            |
| TOTAL ANNUAL LAB      | 792.386                | 823.556           |
| TOTAL INHOUSE         | 168.381                | 183.846           |
| TOTAL INHOUSE ROTEF   | 93.642                 | 112.112           |
| ANNUAL OPERATING COST | 47.800                 | 47.806            |
|                       |                        |                   |

|           | PERSONNEL DATA | ITA (END OF EY 1978) |             |      |  |
|-----------|----------------|----------------------|-------------|------|--|
| PERSONNEL | AUTHORIZED     | TOTAL                | TOTAL       | NON- |  |
|           | STRENGTH       | PHDS                 | PROF        | PROF |  |
| MILITARY  | 4367           | 21                   | <b>₹4</b> 0 | 3927 |  |
| CIVILIAN  | 1225           | 35                   | 438         | 787  |  |
| TOTAL     | 5592           | 56                   | 878         | 4714 |  |

# SPACE AND PROPERTY

| ACRES  | SPACE (TH | DUSANDS OF | SQUARE F | EFT)      | COST (MIL | LION \$1 |
|--------|-----------|------------|----------|-----------|-----------|----------|
|        | LAB       | ADMIN      | OTHER    | TOTAL     | REAL PROP | EQUIP    |
| 464248 | 347.000   | 859.991 1  | 0713.693 | 11920.684 | 286.308   | 221.438  |

## ...MISSION

RESPONSIBLE FOR AIR-LAUNCH TACTICAL AND AIR DEF MSLS, NONNUC MUN. GUIDED WEAP, ELEC-OPTICAL WEP DELSYS, A/C GUN. AMMO. RELATED EQUIP. RESPON FOR BASIC TECHNOLOGY, DEVEL, TEST, INITIAL ACO AND DEPLOY. TEST MISSION INCLLEAD CENTER IN MUN. EMW. INTRUSION/INTERDICTION. AND CLIMATIC SIMULATION

...CURRENT IMPORTANT PROGRAMS
WIDE AREA ANTI-ARMOR MUNITION
GBU-15
ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE
LOW ALTITUDE AIRFIELD ATTACK SYSTEM
COMBINED EFFECTS MUNITION

\*\*\*FUNCTIONS/EQUIPMENT/CAPABILITIES

SCIENTIFIC/ENGINFERING PERSONNEL AND LABORATORY FACILITIES CAPABLE OF EXPLOR, ADV, ENG DEV OF NONNUCLEAR MUNITIONS EQUIP. ARMAMENT SYSTEMS TEST ENVIRONMENT COVERING 725 SQ MI WITH LARGE ADJACENT WATER AREA HAS 28 TEST AREAS WITH INSTRUMENTED FACILITIES INCLUDING PRECISION TRACKING RADAR AND PHOTO-OPTICS IS USED FOR MUNITIMS TESTING AND ELECTROMAGNET IC TEST ENVIRONMENT AN INSTRUMENTED COMPLEX OF THREAT SYSTEMS FOR EVAL WPN SYST EFFECTIVENESS PROVIDES A REALISTIC ENVIRONMENT FOR TESTING A WPN SYST AGAINST AN ACTIVE DEFENSE SYSTEM A CLIMATIC LAB CAPABLE OF TESTING COMPLETE WPN SYSTEMS, A COMPUTER SCIENCE LAB, A PHYSICAL SCIENCE LAB, A PHOTO LAB, AN INSTRUMENTATION/DESIGN/FABRICATION FACILITY, AEROBALLISTIC RESEARCH FACILITY, HIGH FXPLOSIVE R/D FACILITY, A MISSILE SIMULATION AND TEST LABORATORY.

INSTALLATION: ARNOLD ENGINEERING DEVELOPMENT CENTER

TULLAHOMA, TN.

CDR. COL. OLIVER H. TALLMAN

|                | PROGRAM         | DATA BY FISC   | AL YEAR (MILLION S) |           |
|----------------|-----------------|----------------|---------------------|-----------|
| PROGRAM        |                 | 1978           | 1979                |           |
|                |                 | (ACTUAL)       | (ACT + FST)         |           |
| TOTAL ROTEE    |                 | 104.069        | 117.686             |           |
| TOTAL PROCUREM | ENT             | 0.000          | 0.000               |           |
| TOTAL DEM      |                 | 0.030          | 0.014               |           |
| TOTAL OTHER    |                 | 5.203          | 6.650               |           |
| TOTAL ANNUAL L | AB              | 109.302        | 124.350             |           |
| TOTAL INHOUSE  |                 | 104.629        | 118.393             |           |
| TOTAL INHOUSE  | RDTEF           | 102.741        | 116.546             |           |
| ANNUAL OPERATI | NG COST         | 15.644         | 16.981              |           |
|                | PERSONNEL DA    | ATA (FND OF I  | FY 1978)            |           |
| PERSONNEL      | AUTHOR17ED      | TOTAL          | TOTAL               | NON-      |
|                | STRENGTH        | PHDS           | PROF                | PROF      |
| MILITARY       | 85              | κ,             | 50                  | 35        |
| CIVILIAN       | 131             | 4              | 44                  | 87        |
| TOTAL          | 216             | 9              | 94                  | 127       |
|                | SPAC            | SE AND PROPERS | TY                  |           |
| ACRES          | SPACE (THOUSAND | S OF SQUARE !  | EET) COST (MI       | LLION \$) |
|                |                 | ATN OTHER      |                     | EQUIP     |
| 39081          | 1092.409 182.5  | 573 561.114    |                     |           |

#### ...MISSION

PRIMARY MISSION IS TO SUPPORT THE TIMELY ACQUISITION OF SUPERIOR AFROSPACE SYSTEMS BY CONDUCTING RESEARCH AND DEVELOPMENT TESTS IN GROUND ENVIRONMENTAL YEST FACILITIES WHICH SIMULATE THE ACTUAL CONDITIONS THAT THE HARDWARE WILL EXPERIENCE IN PERFORMING ITS MISSION

# ...CURRENT IMPORTANT PROGRAMS

CONTINUED ALCH ENGINE DEVELOPMENT TESTS AND INLET-ENG COMPATIBILITY TEST CONTINUED F-16 STORE SEPARATION TEST AND ENGINE COMPONENT INPROVEMENT CONDUCTED DEVELOPMENT TESTS OF F-16,M-X, IUS, SPACE DEFENSE SYSTEMS CONTINUED EXTENSIVE MINUTEMAN, PQA AND AGING AND SURVEILLANCE TESTS OTHER SIGNIF TESTS.F-18.ABRES.SPACE SHUTTLE.BIRD IMPACT.SENSOR PERF

# ... FUNCTIONS/EQUIPMENT/CAPABILITIES

AEDC IS COMPRISED OF ABOUT 40 TEST UNITS. INCLUDED ARE WIND TUNNELS WITH TEST SECTIONS TO 16 FT 50 AND SPEEDS FROM SUBSONIC TO MACH 22. TURBINF ENGINE TEST CELLS WHICH PROVIDE SIMULATION TO MACH 3. ROCKET TEST CELLS. THE LARGEST RATED AT .5 MILLION LBS THRUST AT ALTITUDE SPACE SIMULATION CHAMBERS TO 42 FT DIA AND 82 FT HIGH, HYPERBALLISTIC RANGES, DUST AND SNOW FROSION FACILITY, BIRD IMPACT FACILITY, SEVERAL CAPTIVE TRAJECTORY SYSTEMS. THESE FACILITIES HAVE ESSENTIALLY SUPPORTED THE DEVELOPMENT AND QUALIFICATION OF EVERY MAJOR AFRONAUTICAL, MISSILE, AND SPACE SYSTEM DEVELOPMENT SINCE 1954. BY PLANNING FOR AN ADEQUATE GROUND ENVIRONMENTAL TEST PROGRAM IN THESE FACILITIES. DEVELOPMENT PROGRAM MANAGERS CAN ASSURE THAT SYSTEM DEFICIENCIES ARE FOUND EARLY. PREVENTING COST AND SCHEDULE OVERRUNS.

The state of the s

INSTALLATION: AVIONICS LABORATOR,

WPAFB.OH.

CDR.COL.R.F. LOPINA

CH.SCI.DR.J.C. RYLES

| PROGRAM            | PROGRAM D      |              | L YEAR (MILLION \$) |            |
|--------------------|----------------|--------------|---------------------|------------|
| PRUGRAM            |                | 1978         | 1979                |            |
| TOTAL ONE OF       | (A             |              | (ACT + EST)         |            |
| TOTAL ROYSE        |                | 132.364      | 145.861             |            |
| TOTAL PROCUREMENT  |                | 0.000        | 0.000               |            |
| TOYAI, OEM         |                | 0.000        | 0.000               |            |
| TOTAL OTHER        |                | 3.240        | 3.600               |            |
| TOTAL ANNUAL LAB   |                | 135.604      | 149.461             |            |
| TOTAL INHOUSE      |                | 26.759       | 29.595              |            |
| TOTAL INHOUSE ROTE |                | 23.519       | 25.995              |            |
| ANNUAL OPERATING   | COST           | 0.000        | 0.000               |            |
|                    | PERSONNEL DATA | LEND OF FY   | 1978)               |            |
| PERSONNEL AUT      | THORIZED       | TOTAL        | , YOTAL             | NON-       |
| •                  | STRENGTH       | PHCS         | PROF                | PROF       |
| MILITARY           | 171            | 10           | 100                 | 71         |
| CIVILIAN           | 782            | 41           | 468                 | 314        |
| JATOT              | 953            | 51           | 568                 | 385        |
|                    | SPACE          | AND PROPERTY |                     |            |
| ACRES SPI          | ACE ITHOUSANDS |              |                     | ILLION \$) |
|                    | LAB ADMIN      |              | TOTAL REAL PRO      |            |
| 229 24             | 18.800 8.775   |              | 468.978 23.61       |            |

#### ...MISSION

MAINTAINS AN AVIONICS TECHNOLOGY BASE THROUGH RESEARCH AND EXPLORATORY AND ADVANCED DEVELOPMENT. DEVELOPS AND DEMONSTRATES COST—EFFECTIVE AVICTORICS CONCEPTS TO REDUCE ACQUISITION AND OPERATING COST AND IMPROVE OPERATIONAL CAPABILITIES. SUPPORTS OPERATIONAL CAPABILITIES.

...CURRENT IMPORTANT PROGRAMS
ALL MEATHER TACTICAL STRIKE SYS-SELF CONTAINED RADAR TARGET ACQ.STRIKE
DIRECTOR FIRE CONTROL, IMPROVED ABRIAL GUNNERY APPLICATION,
ELECTRO-OPTICAL COUNTERMEASURES, TECHNOLOGY TO DEFEAT OPTICAL THREATS,
DIGITAL AVIONICS INFORMATION SYSTEM, INTEGRATED SYS ARCHITECTUR,
ELECTRONICALLY AGILE RADAR, MULTIMODE RADAR FOR STRATEGIC APPLICATIONS

\*\*\*FUNCTIONS/EQUIPMENT/CAPABILITIES
MAINTAINS A WIDE RANGE OF AVIONICS SIMULATION, EVALUATION, DESIGN AND
FABRICATION CAPABILITIES ACROSS THE BROAD MISSION RANGE. AVSAIL IS FOR
ANALYSIS AND SIMULATION OF MULTIPLEX DIGITAL AVIONICS CONCEPTS.CSEL TO—
GETHER WITH IMAGE PROCESSING FAC AND SATCOM R/T CAN EVALUATE A-A,A-G AND
SATELLITE DATA LINK PERFORMANCE. CAD/IC FAC IS USED TO DESIGN AND FABRI—
CATE SPECIALIZED INTEGRATED/HYBRID CIRCUITS AND PRINTED WIRING BOARDS.
DEFS,EDE AND EWAC CAN SIMULATE REAL WORLD SIGNAL/JAMMING ENVIRONMENT FOR
EVALUATION OF ELECTRONIC WARFARE SYSTEMS. TARGETING SYS CHARACTERIZATION
FAC CAN CORRELATE F-O SYSTEMS PERFORMANCE WITH MEASURED WEATHER CONDI—
TIONS. DYNAMIC ANALYZER EVALUATES RECON SENSORS IN REALISTIC FLIGHT ENVIRONMENT. LABS ARE MAINTAIMED FOR EVALUATION OF AIRBORNE AND SPACECRAFT
SENSORS AND COMPONENTS FROM OPTICAL TO RADIO FREQUENCIES.

INSTALLATION: ENGINEERING SERV CNTR DETI (CEFDO)

LAB 4.981 TYNDALL AFB.FL.

0.938

16.932

Burger & Black Burger W. Burger and Burger Burger

1.076

CDR.COL. JOSEPH S. PIZZUTO

|                | PROGRAM         |                | L YEAR (MILLION | \$}          |
|----------------|-----------------|----------------|-----------------|--------------|
| PROGRAM        |                 | 1978           | 1979            |              |
|                |                 | (ACTUAL)       | (ACT + EST)     |              |
| TOTAL ROTEE    |                 | 5.268          | 6.173           |              |
| TOTAL PROCUREM | ENT             | 0.000          | 0.000           |              |
| TOTAL OGM      |                 | 0.406          | 0.481           |              |
| TOTAL OTHER    |                 | 1.191          | 1.200           |              |
| TOTAL ANNUAL L | <b>AR</b>       | 6.865          | 7.854           |              |
| TOTAL ANTOAL L |                 | 01005          | ••••            |              |
| TOTAL INHOUSE  |                 | 2.080          | 1.962           |              |
| TOTAL INHOUSE  | RDTEF           | 0.488          | 0.301           |              |
| ANNUAL OPERATI |                 | 0.150          | 0.150           |              |
| AMORE DI ENAIL |                 | 01120          | 00250           |              |
|                | PERSONNEL DA    | TA (FND OF FY  | 1978)           |              |
| PERSONNEL      | AUTHORIZED      | TOTAL          | TOTAL           | NON-         |
|                | STRENGTH        | PHDS           | PROF            | PROF         |
| MILITARY       | 66              | 7              | 43              | 23           |
| CIVILIAN       | 12              | 2              | 4               | 8            |
| TOTAL          | 78              | 9              | 47              | 31           |
| TOTAL          | 76              | •              | <b>~</b> ·      | J.           |
|                | SPAC            | E AND PROPERTY |                 |              |
| ACRES          | SPACE (THOUSAND | S OF SQUARE FE | ET > COST       | (MILLION \$) |
|                | LAB ADM         |                | TOTAL REAL      |              |

...MISSION
LEAD AGENCY FOR RESEARCH, DEVELOPMENT, TEST, AND EVALUATION IN THE AREA
OF CIVIL AND EVIRONMENTAL ENGINEERING. FOCAL POINT FOR FACILITIES
ENERGY.

9.751

...CURRENT IMPORTANT PROGRAMS
NEW AIRCRAFT OPERATIONAL SURFACES AND RAPID REPAIR SYSTEMS
SURVIVABILITY/VULNERABILITY OF AEROSPACE FACILITIES
ENVIRONMENTAL QUALITY AND ASSESSMENT RESEARCH AND DEVELOPMENT
ENERGY CONSERVATION AND ALTERNATE SOURCES

2.200

...FUNCTIONS/EQUIPMENT/CAPABILITIES
CEEDO HAS ACCESS TO LABORATORIES AND TEST SITES TO PERFORM QUALITATIVE
AND QUATITATIVE MEASUREMENTS ON CORROSION, ENGINEERING MATERIAL,
PAVEMENTS, SOIL MECHANICS, AIR QUALITY, WASTE TREATMENT PROCESS, FIRE
EXTINGUISHING AGENTS, AND HARDENED AIRCRAFT SHELTERS. EQUIPMENT INCLUDES
FLAME AND ABSORPTION SPECTROPHOTOMETERS, WATER/WASTE STANDARD METHODS
EQUIPMENT, AND A MICROPROCESSOR DEVELOPMENT SYSTEM. REMOTE TERMINAL
ACCESS IS AVAILABLE TO A CDC 6500 SCIENTIFIC COMPUTER WITH DEF-LINE DRUM
PLOTTING CAPABILITY. A RUNWAY REPAIR/ALTERNATE LAUNCH SURFACES TEST.
SITE HAS A 200 X 600 FOOT TYPICAL RUNWAY SECTION.

INSTALLATION: FLIGHT DYNAMICS LABORATORY

WPAFB, CH.

CDR.COL.G.F.CUDAHY

CH.SCI.K.I. COLLIER

|              | PROGRAM DA     | TA BY FIS  | CAL YEAR (MILLION | \$)  |
|--------------|----------------|------------|-------------------|------|
| PROGRAM      |                | 1978       | 1979              |      |
|              | (AC            | TUAL)      | (ACT ^ FST)       |      |
| TOTAL ROTEE  |                | 83.290     | 82.076            |      |
| TOTAL PROCUR | EMENT          | 0.000      | 0.000             |      |
| MAG JATOT    |                | 0.345      | 0.345             |      |
| TOTAL OTHER  |                | 5.259      | 3.644             |      |
| TOTAL ANNUAL | . LAB          | 88.894     | 86.065            |      |
| TOTAL INHOUS | SE .           | 31.202     | 30.840            |      |
| TOTAL INHOUS | SE ROTEE       | 27.764     | 27.196            |      |
| ANNUAL OPERA | ATING COST     | 5.775      | 6.063             |      |
|              | PERSONNEL DATA | (END OF    | FY 1978)          |      |
| PERSONNEL    | AUTHORIZED     | TOTAL      | TOTAL             | NON+ |
|              | STRENGTH       | PHDS       | PROF              | PROF |
| MILITARY     | 200            | 7          | 106               | 94   |
| CIVILIAN     | 750            | 26         | 443               | 307  |
| TOTAL        | 950            | 33         | 549               | 401  |
|              | . SDACE A      | NO DECIDED | TV                |      |

#### SPACE AND PROPERTY

| ACRES | SPACE (THOUSANDS OF |         | SQUARE FEET) |         | COST (MILLION \$) |              |
|-------|---------------------|---------|--------------|---------|-------------------|--------------|
|       | LAB                 | ADMIN   | OTHER        | TOTAL   | REAL PROP         | <b>EQUIP</b> |
| 92    | 463.927             | 132.003 | 90.867       | 676.797 | 26.184            | 50.516       |

#### ...MISSION

PLAN AND EXECUTE USAF RESEARCH EXPLORATORY AND ADVANCED DEV PROGRAMS FOR AEROSPACE FLT VEHICLE STRUCTURES AERODYNAMICS FLT CONTROL VEHICLE DYN AND VEHICLE EQUIP. LEAD AFSC LAB FOR EXPER FLT VEHICLES. AFSC FOCAL PT. FOR NONNUCLEAR SURVIVABILITY PROG. EVALUATE COMTRACTOR I R AND D PROG.

...CURRENT INPORTANT PROGRAMS
ADVANCED COMPOSITE STRUCTURES
ADVANCED FIGHTER TECHNOLOGY INTEGRATOR
COMBINED ENVIRONMENT RELIABILITY TEST
DIGITAL FLIGHT CONTROL SYSTEM
FLIGHT VEHICLE TECHNOLOGY

## ...FUNCTIONS/EQUIPMENT/CAPABILITIES

50MW TEST FACILITY IS A 30 MIN CONTINUOUS FLOW ARC MEATED HYPERSONIC W/T HAVING A RE-ENTRY NOSE TIP (RENT) TEST LEG AND HYPERSONIC TEST LEG (HTL) STRUCTURES TEST FACILITY PERMITS STRUCTURAL TESTING OF FULL SCALE VEHICLES AND COMPONENTS WITH PROGRAM CONTROLLED STMULATION OF FORCE AND THERMAL FLT ENVIRONMENTS. LANDING GEAR TEST FACILITY DYNAMICALLY SIMULATES LANDING GEAR COMPONENT PERFORMANCE CHARACTERISTICS THRU PROGRAMMED PARAMETERS OF LOADS VELOCITIES TEMP ETC. ENGINEFRING FLT SIMULATION FAC CONTAINS FLT SIMULATORS AND COMPUTING EQUIP TO DEVELOP CONTROL DISPLAY CONCEPTS AND EVALUATE MANS PERFORMANCE ON SPECIFIC DISPLAY AND CONTROL SYSTEMS. BALLISTIC RANGES TEST VULNERABILITY OF AIRCRAFT SUBSYSTEMS BY SIMULATING THREAT FUEL STRUCTURAL AND AERODYNAMIC ENVIRONMENTS.

INSTALLATION: FLIGHT TEST CENTER

EDWARDS AFB, CA.

CDR.BG.P.J. CONLEY, JR.

TECH.DIR.MR F.N. STOLIKER

|               | PROGRAM         | DATA BY FISC  | AL YEAR (MILLION \$ | )           |
|---------------|-----------------|---------------|---------------------|-------------|
| PROGRAM       |                 | 1978          | 1979                |             |
|               |                 | (ACTUAL)      | (ACT + FST)         |             |
| TOTAL RDTEE   |                 | 85.675        | 94.792 '            |             |
| TOTAL PROCURE | MENT            | 0.000         | 0.000               |             |
| MAG JATOT     |                 | 1.515         | 1.451               |             |
| TOTAL OTHER   |                 | 59.122        | 51.830              |             |
| TOTAL ANNUAL  | LAB             | 146.312       | 148.073             |             |
| TOTAL INHOUSE |                 | 105.604       | 114.150             |             |
| TOTAL INHOUSE | RDT&F           | 61.847        | 67.992              |             |
| ANNUAL OPERAT | ING COST        | 36.194        | 39.293              |             |
|               | PERSONNEL DA    | TA (FND OF F  | Y 1978)             |             |
| PERSONNEL     | AUTHOR I ZED    | TOTAL         | TOTAL               | NON-        |
|               | STRENGTH        | PHDS          | PROF                | PROF        |
| MILITARY      | 2992            | 0             | 128                 | 2864        |
| CIVILIAN      | 1626            | 2             | 213                 | 1413        |
| TOTAL         | 4618            | 2             | 341                 | 4277        |
|               | SPAC            | E AND PROPERT | Υ                   |             |
| ACRES         | SPACE (THOUSAND | S OF SQUARE F | EET) COST (         | MILLION \$) |
|               | LAB ADA         | IN OTHER      | TOTAL REAL PRI      | OP EQUIP    |
| 227071        | 106.575 265.4   | 04 6730.973   | 7102.952 272.9      | 68 120.062  |

#### ...MISSION

PLANS, CONDUCTS/SUPPORTS AND REPORTS ON TESTS OF MANNED/UNMANNED AEROSPACE VEH INCL ALL-WEATHER TESTS. CONDUCTS FLIGHT EVAL OF AEROSPACE RSCH VEH AND DEV TEST OF AERODYNAMIC DECELERATORS. OPR USAF TEST PILOT SCHOOL. SUPPORTS USAF, DOD, GOV, FOREIGN AND CONTRACTOR TEST AND EVAL

# ... CURRENT IMPORTANT PROGRAMS

ALCH DT AND E

F-16 DT AND E

A-10 DT AND E

F-15 DT AND E B-1 DT AND E

# ...FUNCTIONS/EQUIPMENT/CAPABILITIES

TECHNICAL CAPABILITIES, FACILITIES AND EQUIP ARE AVAILABLE TO PROVIDE A COMPLETE RANGE OF SERVICES FOR CONDUCTING DT AND F FLT TESTS OF AERONAUTICAL SYS, TO CONDUCT FLT EVAL AND RUCOVER RSCH VEH, AND TO TRAIN TEST PILOTS. FLIGHT TEST MISSION CONTROL COMPLEX, ENGRG FACILITIES, REALTIME INSTRUMENTED RANGES, DATA COLLECTION, REDUCTION AND ANALYSIS FACILITIES, PHOTOTYV, ACFT/ENGINE MAINT, TEST EQUIP, ELECTRONIC SHOWS AND DRY LAKES FOR RECOVERY AND EMERGEN'Y LANDINGS PROVIDE SUPPORT FOR ALL PROGRAMS. OTHER FACILITIES ARE PRECISION IMPACT GUNNERY/BOMBING, INFRARED/PHOTO RESOLUTION, RADAR FIDELITY, TACTICAL AND OPTICAL RANGES, ENGR SIMULATOR, MUNITIONS STORAGE AND CHECKOUT AND CONTRACTOR—ASSIGNED HANGARS, SHUPS, OFFICE SPACE, ETC.

INSTALLATION: FRANK J SEILER RESEARCH LABORATORY

USAF ACADEMY.CO.

CDR.COL.M.D.BACON

CH.SCI.LTC.B.A. LOVING

|               | PRO               | GRAM DATA   |          |           | ILLION \$) |          |
|---------------|-------------------|-------------|----------|-----------|------------|----------|
| PROGRAM       |                   | 1976        |          | 1979      |            |          |
|               | ,                 | CACTUAL     | .) (     | IACT + ES | T )        |          |
| TOTAL ROTEF   |                   | 0,          | 775      | 0.        | 745        |          |
| TOTAL PROCURE | MENT              | 0.          | .000     | 0.0       | 000        |          |
| TOTAL DEM     |                   | 0.          | .000     | 0         | 000        |          |
| TOTAL OTHER   |                   | 0.          | 570      | 0.4       | 600        |          |
| TOTAL ANNUAL  | LAB               | 1.          | 345      | 1.        | 345        |          |
| TOTAL INHOUSE |                   | 1.          | .279     | 1.        | 288        |          |
| TOTAL INHOUSE | ROTGE             | 0.          | 709      | 0.        | 688        |          |
| ANNUAL OPERAT | ING COST          | 0           | 045      | 0.        | 050        |          |
|               | PERSONNE          | L DATA (EN  | ID OF FY | 1978)     |            |          |
| PERSONNEL     | <b>AUTHORIZED</b> | 7(          | TAL      | TOT       | AL         | NON-     |
|               | STRENGTH          | ŗ           | PHDS     | PR        | BF .       | PROF     |
| MILITARY      | 23                |             | 15       | 2         | Ó          | 3        |
| CIVILIAN      | 9                 |             | 1        |           | 5          |          |
| TOTAL         | 32                |             | 16       | 2         | -          | 4 7      |
|               |                   | SPACE AND F | PROPERTY |           |            |          |
| ACRES         | SPACE (THOU       |             |          | ET )      | COST (MILI | LION \$1 |
|               | LAB               | ADMIN       | OTHER    | TOTAL     | REAL PROP  | EQUIP    |
| 1             | 19.000            | 3.100       | 0.000    | 22.100    | 1.680      | 1.634    |

### ...MISSION

CONDUCT RESEARCH IN AEROSPACE MECHANICS. APPLIED MATHEMATICS & CHEMISTRY. ENCOURAGE & SUPPORT ACADEMY FACULTY & CADET RESEARCH BY DIRECT PARTICIPATION. MONITOR FACULTY CONSULTANT PROG. SUMMER RSCH PROG. FOCAL POINT FOR USAF ACADEMY RESEARCH PROPOSED TO DL RESEARCH & TECHNOLOGY LABS (AFSC).

...CURRENT IMPORTANT PROGRAMS
BATTERY RESEARCH & FLECTROCHEMISTRY OF MOLTEN SALTS, ENERGETIC MATERIALS
RESEARCH, CHEMICAL MOLECULAR DYNAMICS OF LASERS AND PLUMES.
APPLIED OPERATIONS RESEARCH, INERTIAL GUIDANCE TESTING, ADVANCED SENSOR
DEVELOPMENT, MICROPROCESSOR RESEARCH.
FLUID DYNAMICS. UNSTEADY AFRODYNAMICS.

\*\*\*FUNCTIONS/EQUIPMENT/CAPABILITIES

MOLTEN SALT MELT STRUCTURE, CONDUCTIVITY&ELECTRODE REACTIONS. EXPLOSIVE &
PROPELLANT SYNTH, DECOMPOSITION MECHANISMS&DETONATION PHENOMENA. GENERAT—
ION, MSMT, SPECTROSCOPY&MO CALC. OF EXCITED STATE SPECIES. IR, UV, NMR, EPR,
X-RAY&MASS SPECTS, GAS&LIO CHROMATOGRAPHS, ELECTRON MICROSCOPE, SPECIAL
SPECTROMETERS & CONDUCTIVITY EQUIP., ASSOC FACILITIES FOR NET CHEMISTRY.
ADVANCED ANALYSIS & EVALUATION TECHNIQUES FOR INERTIAL GUIDANCE SENSORS
USING 2-AXIS TEST TABLE (GYRO), AUTOMATIC AZIMUTH ALIGNMENT EQUIPMENT &
ELECTRONIC CONTROL EQUIP FOR 50 SERIES INERTIAL DEVICES LOCATED IN A
CLASS 1000 CLEAN LAB ON 80 TON AIR SUPPORTED STABLE PLATFORN. PDP 11/45
MINI COMPUTER & SOFTWARE TO AUTOMATE GYRO RESEARCH.
AERODYNAMIC RESEARCH IN USAFA SUBSONIC & TRISONIC WIND TUNNELS,
HOLOGRAPHIC & OTHER OPTICAL FLOW VISUALIZATION INSTRUMENTATION.

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INSTALLATION: GEOPHYSICS LABORATORY

HANSCOM AFB, MA.

CDR.COL.BERNARD S. MORGAN.JR.

CH.SCI.DR. JOHN N. HOWARD N N. HOWARD

|                       | PROGRAM DATA BY FISC | AL YEAR (MILLION \$) |
|-----------------------|----------------------|----------------------|
| PROGRAM               | 1978                 | 1979                 |
|                       | (ACTUAL)             | (ACT + EST)          |
| TOTAL ROTGE           | 46 • 400             | 46.000               |
| TOTAL PROCUREMENT     | 0.000                | 0.000                |
| TOTAL DEM             | 0.000                | 0.000                |
| TOTAL OTH";           | 9.110                | 10.000               |
| TOTAL APPNUAL LAB     | 55.510               | 56.000               |
| TOTAL INHOUSE         | 25.317               | 25.224               |
| TOTAL INHOUSE ROTGE   | 21.334               | 21.466               |
| AMNUAL OPERATING COST | 5.118                | 5.232                |

|            | PERSONNEL DATA | (END OF F | Y 1978) |      |
|------------|----------------|-----------|---------|------|
| PER SONNEL | AUTHORIZED     | TOTAL     | TOTAL   | NON- |
|            | STPENGTH       | PHDS      | PROF    | PROF |
| MILITARY   | 120            | 7         | 41      | 79   |
| CIVILIAN   | 505            | 73        | 308     | 197  |
| TOTAL      | 625            | 68        | 349     | 276  |

|       |            | SPACE AN | D PROPERTY |         |             |         |
|-------|------------|----------|------------|---------|-------------|---------|
| ACRES | SPACE (THO | SANDS OF | SQUARE FEE | T)      | COST. (MILE | ION \$) |
|       | LAB        | ADMIN    | OTHER      | TOTAL.  | REAL PROP   | EQUIP   |
| 368   | 391.903    | 15.006   | 25.883     | 432.792 | 9.717       | 21.453  |

...MISSION
CONDUCTS AND SUPPORTS AF RELEVANT RESEARCH AND EXPLORATORY
DEVELOPMENT IN ENVIRONMENTAL AND PHYSICAL SCIENCES
WITH MAJOR EMPHASIS ON GEOPHYSICS. ALSO CONDUCTS
AND SUPPORTS SPECIFICALLY ASSIGNED ADVANCED DEVELOPMENT EFFORTS.

...CURRENT IMPORTANT PROGRAMS
SPACECRAFT CHARGING TECHNOLOGY
SURFACE WEATHER OBSERVING AUTOMATION
STRATOSPHERIC ENVIRONMENTAL IMPACT ASSESSMENTS
OPTICAL, INFRARED AND UV BACKGROUNDS FOR SURVEILLANCE SYSTEMS
GEODETIC AND GEOKINETIC EFFECTS ON MISSILE CEP

...FUNCTIONS/EQUIPMENT/CAPABILITIES
CONDUCTS RESEARCH AND TECHNICAL DEVELOPMENT IN TERRESTRIAL
SCIENCES, METEOROLOGY, AEROHOMY, AND OPTICAL, SPACE AND SOLAR
PHYSICS RELATING TO AIR FORCE NEEDS. FOUIPMENT AND FACILITIES
INCLUDE RADIO TELESCOPES FOR SOLAR RESEARCH; ONE C-130 AIRCRAFT
FOR METEOROLOGICAL RESEARCH; ROCKET AND BALLOON LAUNCH FACILITIES;
TWO KC-135 AIRCRAFT FOR OPTICAL, UPPER ATMOSPHERIC AND NEAR FARTH
SPACE STUDIES; AND TWO CDC 6600 COMPUTER SYSTEMS.

INSTALLATION: HUMAN RESOURCES LABORATORY

BROOKS AFB.TX.

CDR.COL.PONALD W. TERRY

|               | PROGRAM          | DATA BY FIS | CAL YEAR (MILLIUN | <b>\$</b> )  |
|---------------|------------------|-------------|-------------------|--------------|
| PROGRAM       |                  | 1978        | 1979              |              |
|               |                  | ACTUAL 1    | (ACT + EST)       |              |
| TOTAL ROTEE   |                  | 22.230      | 20.040            |              |
| TOTAL PROCUR  | EMENT            | 0.000       | 0.000             |              |
| TOTAL DEM     |                  | 0.000       | 0.915             |              |
| TOTAL OTHER   |                  | 3.215       | 2.440             |              |
| TOTAL ANNUAL  | LAB              | 25.445      | 23.395            |              |
| TOTAL INHOUS  | F                | 10.097      | 10.442            |              |
| TOTAL INHOUSE | E RDT&F          | 7.797       | 8.002             |              |
| ANNUAL OPERA  | TING COST        | 1.291       | 1.482             |              |
|               | PERSONNEL DAT    | A LEND OF   | FY 1978)          |              |
| PERSONNEL.    | AUTHORIZED       | TOTAL       | TOTAL             | NON-         |
|               | STRENGTH         | PHDS        | PROF              | PROF         |
| MILITARY      | 126              | 12          | 91                | 35           |
| CIVILIAN      | 241              | 46          | 158               | 83           |
| TUTAL         | 367              | 58          | 249               | 118          |
|               | SPACE            | AND PARPER  | TY                |              |
| ACRES         | SPACE (THOUSANDS | OF SQUARE   | FFFT) COST        | (MILLION \$) |
|               | LAB ADMI         | IN OTHER    | TOTAL REAL P      | ROP FQUI     |

## ...MISSION

13

PRINCIPAL AFSC ORGANIZATION CHARGED WITH PLANNING AND EXECUTING EXPLORATORY AND ADVANCED DEVELOPMENT PROGRAMS FOR SELECTION, MOTIVATION, TNG, RETENTION, EDUCATION, UTILIZATION AND CAREFR DEVELOPMENT OF AF MILITARY PERSONNEL COMPOSITION OF PERSONNEL FORCE AND TNG EQUIPMENT.

179-285

## ... CURRENT IMPORTANT PROGRAMS

ADVANCED DEVELOPMENT IN THE USE OF SIMULATION FOR UNDERGRADHATE PILOT AND AEROSPACE CREW TNG. IMPROVED PERSONNEL SELECTION, CLASSIFICATION, EVALUATION AND UTILIZATION TECHNIQUES. HUMAN FACTORS IN DESIGN OF TNG SYSTEMS. DESCRIBING, EVALUATING AND STRUCTURING AF OCCUPATIONS. IMPROVED TECHNICAL TNG THROUGH ADVANCED INSTRUCTIONAL SYSTEMS.

## ...FUNCTIONS/EQUIPMENT/CAPABILITIES

69.595

OCCUPATIONAL ANALYSIS, PERSONNEL PROCUREMENT, CLASSIFICATION, RETENTION AND SEPARATION, COMPUTER SIMULATION MODELS FOR PERSONNEL SYSTEMS, MAN-POWER RUMTS OF AF WEAPONS SYS, TNG TECHNIQUES, DESIGN OF SIMULATORS AND OTHER TRAINING DEVICES, CONDUCT TNG RESEARCH ASSOCIATED WITH PILOT TNG USING SOPHISTICATED HIGH-FIDELITY A/C SIMULATORS, ADVANCED INSTRUCTIONAL SYS FOR INDIVIDUALLY PACED COMPUTER AIDED TECH INSTRUCTION, ADVANCED SIMULATOR FOR UPT, ADVANCED INSTRUCTIONAL SYSTEM, SIMULATION AND TRAINING ADVANCED RESEARCH SYSTEM, SIMULATION FOR MAINTENANCE TRAINING, TECHNICAL LIBRARY, PERSONNEL TESTING ROOMS, COMPUTER, UNIVAC 1108 FLECTRONIC DATA PROCESSING SYSTEM WITH 2 CPUS, 16 TAPE DRIVES, 16 DISC DRIVES, 21 UNISCOPE INTERACTIVE TERMINALS, GRAPHICS DISPLAY CONSOLE, 2 PRINTERS, CARD READER, CARD PUNCH, ELEC ASSOC TR 48 ANALOG COMPUTER.

INSTALLATION: MATERIALS LABORATORY

WPAFB, OH.

CDR-CCL-P-O- BOUCHARD

|                | PROGR         | AM DATA BY FISCA | AL YEAR (MILLION | \$)          |
|----------------|---------------|------------------|------------------|--------------|
| PROGRAM        |               | 1978             | 1979             |              |
|                |               | (ACTUAL)         | (ACT + EST)      |              |
| TOTAL ROTEL    |               | 50.739           | 50.355           |              |
| TOTAL PROCURE! | 4ENT          | 41.006           | 52.567           |              |
| TOTAL DEM      |               | 0.000            | 0.000            |              |
| TOTAL OTHER    |               | 1.120            | 1.144            |              |
| TOTAL ANNUAL   | LAB           | 92.865           | 104.066          |              |
| TOTAL INHOUSE  |               | 16.075           | 15.954           |              |
| TOTAL INHOUSE  | RDTEE         | 14.955           | 14.810           |              |
| ANNUAL OPERAT  | ING COST      | 5.599            | 5.600            |              |
|                | PERSONNEL     | DATA (FND UF F   | Y 1978)          |              |
| PERSONNEL      | AUTHORIZED    | TOTAL            | TOTAL            | NON-         |
|                | STRENGTH      | PHDS             | PROF             | PROF         |
| MILITARY       | 57            | 9                | 49               | 8            |
| CIVILIAN       | 362           | <b>7</b> 3       | 288              | 74           |
| TOTAL          | 419           | 82               | 337              | 82           |
|                | SF            | PACE AND PROPERT | Y                |              |
| ACRES          | SPACE (THOUSA | INDS OF SQUARE F | FFT COST         | (MILLION \$) |
|                | LAB A         | OMIN OTHER       | TOTAL REAL       | PROP EQUIP   |
| 15             | 222.809 2     | 5.169 111.256    | 359.134 19       | .675 15.473  |

# ...MISSION

PLAN/EXECUTE EXPLORATORY AND ADVANCED DEVELOPMENT, AND ASSIGNED BASIC RSCH, PROGS. FOR MATERIALS. PROVIDE TECH./MANAGEMENT ASSISTANCE FOR STUDIES, ANALYSES, DEVELOPMENT PLANNING, ACQUISION, TEST, EVALUATION MOD. AND OPN. OF AEROSPACE SYSTEMS. MANAGE/DIRECT A.F. DIRECT MFG. PROG.

...CUPRENT IMPORTANT PROGRAMS
ADVANCED DEVELOPMENT OF LASER HARDENED MATERIALS
MANUFACTURING TECHNOLOGY COST REDUCTION PROGRAM FOR METALS, NONMETALS AND
THERMAL PROTECTION MATERIALS FOR REENTRY VEHICLES
PROPULSION MATERIALS
SYSTEMS SUPPORT

...FUNCTIONS/EQUIPMENT/CAPABILITIES
MATERIALS RESEARCH AND DEVELOPMENT FACILITIES AND CAPABILITIES FOR
AFROSPACE STRUCTURES, THERMAL PROTECTION SYSTEMS FOR BALLISTIC REENTRY
VEHICLES AND ENGINES, FLUIDS, LUBRICANTS, FLUID CONTAINMENT, PROPULSION,
COATINGS, FIBERS, EM WINDOWS, SENSORS, DISPLAYS, LASER WINDOWS, AND
OPT DEVICES, ELECT COMPONENTS, NON-DESTRUCTIVE TESTING, POLYMERS,
ADHESIVES, NONMETALLIC MATRIX COMPONENTS, ELASTOMERS, METALS, ALLOYS,
METAL COMPOSITES, METAL PROCESSING, INTERMETALLICS, CERAMICS, STATIC
AND DYNAMIC BEHAVIOR, JOINING, GRAPHITE, ELECTRONIC, PHYSICAL, CHEMICAL
ANALYSIS. OTHER MAJOR MATERIALS FUNCTIONS —MANUFACTURING TECHNOLOGY,
SYSTEM APPLICATION, SYSTEM SUPPORT, THERMAL PROTECTION MATERIALS.

INSTALLATION: ROCKET PROPULSTON LABORATORY

EDWARDS AFB.CA.

the same of the sa

CDR.COL. WILLIAM F. MORRIS

CHASCIADRA RICHARD R. WEISS

| PROGRAM               | PROGRAM DATA BY FISCA<br>1978 | NL YEAR (MILLION \$)<br>1979 |
|-----------------------|-------------------------------|------------------------------|
|                       | (ACTUAL)                      | (ACT + FS )                  |
| TOTAL ROTEE           | 36.222                        | 36.990                       |
| TOTAL PROCUREMENT     | 0.474                         | 0.000                        |
| TOTAL ORM             | 0.000                         | 0.000                        |
| TOTAL OTHER           | 2.088                         | 2.200                        |
| TOTAL ANNUAL LAB      | 38.784                        | 39.190                       |
| TOTAL INHOUSE         | 12.556                        | 13.057                       |
| TOTAL INHOUSE ROTEF   | 10.317                        | 10.857                       |
| ANNUAL OPERATING COST | 0.376                         | 0.400                        |

| PERSUNNEL DATA | (END OF F                            | Y 1978)                                     |                                                              |
|----------------|--------------------------------------|---------------------------------------------|--------------------------------------------------------------|
| AUTHORIZED     | TOTAL                                | TOTAL                                       | NON-                                                         |
| STRENGTH       | PHDS                                 | PROF                                        | PROF                                                         |
| 176            | 2                                    | 71                                          | 105                                                          |
| 260            | 13                                   | 91                                          | 169                                                          |
| 436            | 15                                   | 162                                         | 274                                                          |
|                | AUTHORIZED<br>Strength<br>176<br>260 | AUTHORIZED TOTAL STRENGTH PHDS 176 2 260 13 | AUTHORIZED TOTAL TOTAL STRENGTH PHDS PROF 176 2 71 260 13 91 |

|       |            | SPACE AN  | D PROPERTY |         |            |         |
|-------|------------|-----------|------------|---------|------------|---------|
| ACRES | SPACE (THO | USANDS OF | SQUARE FEE | ET)     | COST (MILL | ION \$9 |
|       | LAR        | ADMIN     | OTHER      | TOTAL   | REAL PROP  | FQUIP   |
| 68345 | 419.046    | 86.848    | 4.780      | 510.674 | 125.000    | 23.482  |

#### ...MISSION

CONDUCT THE AIR FORCE'S ROCKET PROPULSION EXPLORATORY AND ADV DEVEL PROGRAMS TO PROVIDE ADV TECH FOR FUTURE ICBMS, STRATEGIC AND TACTICAL AIR LA UNCHED MISSILES, SPACE VEHICLES, AND SATELLITES. PROVIDES ROCKET PROPULS ION TECHNOLOGICAL SUPPORT TO DOD AND NON-DOD AGENCIES.

### . . . CURRENT IMPORTANT PROGRAMS

PROVIDE REDUCED RISK PROPULSION O. JONS FOR MX FULL SCALE DEVEL. PROVIDE SOLID ROCKET SIGNATURE, PERFORMANCE, AND ENERGY MGT OPTIONS FOR AIR LAU NCHED MISSILES. DEMO 30 TO 50 PERCENT REDUCTION IN COST OF HIGH PRODUCTION N RATE SOLID ROCKETS. DEMO AN IMPROVED PERFORMANCE KICK MOTOR TECHNOLOGY FOR SPACE APPL. DEMO LONG LIFE MONOPROPELLANT SATELLITE THRUSTERS.

# ...FUNCTIONS/EQUIPMENT/CAPABILITIES

A PHYSICAL SCIENCE LAB FOR SYNTHESIS, ANALYSIS AND FORMULATION OF NEW PR OPELLANTS. FACILITIES FOR MIXING, CASTING, CURING AND TESTING SOLID ROCK ET MOTORS. A SOLID MOTOR TEST AND EVAL COMPLEX FOR INVESTIGATION OF COMB USTION, AGING, STRUCTURAL INTEGRITY, BALLISTIC PERFORMANCE AND HIGH TEMP COMPONENTS. LAB FOR TESTING SMALL ATTITUDE CONTROL AND SATELLITE PROPUL SION SYSTEMS AND COMPONENTS UMBER SIMULATED SPACE FNVIRONMENTS. ALTITUDE TESTING OF LIQUID AND SOLID ROCKETS UP TO 50,000 POUNDS THRUST. AMBIENT TESTING OF LIQUID OR SOLID ROCKETS UP TO 500,000 POUNDS THRUST. IN-HOUSE ANALYTICAL CAPABILITY FOR DESIGN, ANALYSIS, AND TEST DATA REDUCTION. SHO PS FOR FABRICATING TEST HARDWARE AND TEST SYSTEMS. A FULL SCALE REENTRY NOSETIP TEST FACILITY.

INSTALLATION: ROME AIR DEVELOPMENT CENTER

GRIFFISS AFB.N.Y.

CDR.COL.DONALD J. STUKEL

CH.SCI.DR.JOHN S. BURGESS

|                       | PROGRAM DATA BY FISC. | AL YEAR (MILLION \$ | <b>)</b>    |
|-----------------------|-----------------------|---------------------|-------------|
| PROGRAM               | 1978                  | 1979                |             |
|                       | (ACTUAL)              | (ACT + EST)         |             |
| TOTAL ROTGE           | 125.977               | 134.360             |             |
| TOTAL PROCUREMENT     | 37.761                | 41.159              |             |
| TOTAL DEM             | 11.605                | 12.649              |             |
| TOTAL OTHER           | 45.437                | 53.421              |             |
| TOTAL ANNUAL LAB      | 220.780               | 241.589             |             |
| TOTAL INHOUSE         | 29.573                | 29.726              |             |
| TOTAL INHOUSE ROTEF   | 22.059                | 22.059              |             |
| ANNUAL OPERATING COST | 9.264                 | 9.727               |             |
| PERSO                 | NNEL DATA LEND OF F   | Y 1978)             |             |
| PERSONNEL AUTHORIZ    | ED YOTAL              | TOTAL               | NON-        |
| STRENG                | TH PHDS               | <b>PROF</b>         | PROF        |
| MILITARY 23           | 2 5                   | 98                  | 134         |
| CIVILIAN 110          | 58                    | 607                 | 494         |
| TOTAL 133             | 63                    | 705                 | 628         |
|                       | SPACE AND PROPERT     | Υ                   |             |
| ACRES SPACE (T        | HOUSANDS OF SQUARE F  | EET) COST (         | MILLION \$3 |
| LAB                   | ADMIN OTHER           | TOTAL REAL PR       | OP EQUIP    |
| 1560 847.196          | 77.272 127.532        | 1052.000 30.4       | 70 52.046   |

...MISSION

CONDUCTS RESEARCH, EXPLORATORY AND ADVANCED DEVELOPMENT, TEST AND SELECTED ACQUISITION PROGRAMS IN SUPPORT OF COMMAND, CONTROL AND INTELLIGENCE C-CUBED AREAS OF INFORMATION SCIENCES AND INTELLIGENCE.

...CURRENT IMPORTANT PROGRAMS
HAVE NOTE
TARGET ACQUISITION AND WEAPON DELIVERY SYSTEM
TACTICAL TARGET IDENTIFICATION TECHNOLOGY
SEEK TALK
WIDEBAND RECORDING TECHNOLOGY

...FUNCTIONS/EQUIPMENT/CAPABILITIES
PRINCIPLE TECHNICAL AREAS ARE COMMUNICATIONS, ELECTROMAGNETIC GUIDANCE
AND CONTROL, SURVEILLANCE OF GROUND AND AEROSPACE OBJECTS, INTELLIGENCE
DATA COLLECTION AND HANDLING, INFORMATION SYSTEM TECHNOLOGY, IONOSPHERIC
PROPAGATION. SOLID STATE SCIENCES, MICROWAVE PHYSICS AND ELECTRONIC
RELIABILITY, MAINTAINABILITY AND COMPATIBILITY. MAJOR IN-HOUSE FACILITIES
ARE RECONNAISSANCE EXPLOITATION FACILITY, HIGH POWER FACILITY, DIGITAL
COMMUNICATIONS EXPERIMENTAL FACILITY, R AND D COMPUTER FACILITY
CONSISTING OF TWO HONEYWELL 61BO COMPUTERS, RELIABILITY ANALYSIS CENTER,
RADIATION EFFECTS FACILITY, CARTOGRAPHIC TEST FACILITY, ECCM AND SIGNAL
PROCESSING LABORATORY, SOLID STATE DEVICE FAILURE ANALYSIS FACILITY,
EXPERIMENTAL DEVICE FABRICATION FACILITY, AND AN ELECTROMAGNETIC
VULNERABILITY FACILITY FOR WEAPONS TESTING.

INSTALLATION: SCHOOL OF AEROSPACE MEDICINE

BROOKS AFB.TX.

CDR.COL.L.J. ENDERS

DEP.DIR.BILLY E.WELSH

|                       | PROGRAM DATA BY FISC | AL YEAR (MILLION \$1 |
|-----------------------|----------------------|----------------------|
| PROGRAM               | 1978                 | 1979                 |
|                       | (ACTUAL)             | (ACT + EST)          |
| TOTAL ROTEE           | 13.160               | 14.097               |
| TOTAL PROCUREMENT     | 0.000                | 0.000                |
| MAO JATOT             | 0.000                | 0.000                |
| POTAL OTHER           | 5.815                | 6.739                |
| TOTAL ANNUAL LAB      | 18.975               | 20.836               |
| TOTAL INHOUSE         | 16.100               | 16.751               |
| TOTAL INHOUSE ROTEF   | 10.285               | 10.012               |
| ANNUAL OPERATING COST | 2.000                | 2.000                |

|           | PERSONNEL DATA | (FND OF F | Y 1978) |      |
|-----------|----------------|-----------|---------|------|
| PERSONNEL | AUTHORIZED     | TOTAL     | TOTAL   | NON- |
|           | STRENGTH       | PHDS      | PROF    | PROF |
| MILITARY  | 386            | 60        | 108     | 280  |
| CIVILIAN  | 280            | 35        | 101     | 179  |
| TOTAL     | 868            | 95        | 209     | 459  |

|       |            | SPACE AN   | D PROPERTY |         |            |         |
|-------|------------|------------|------------|---------|------------|---------|
| ACRES | SPACE (THO | SUSANDS OF | SQUARE FE  | FT)     | COST IMILI | ION \$) |
|       | LAB        | ADMIN      | OTHER      | TOTAL   | REAL PROP  | EQUIP   |
| 74    | 360.655    | 77.980     | 48.696     | 487.331 | 16.936     | 20.539  |

...MISSION
CONDUCT EXPLORATORY RESEARCH AND DEVELOPMENT PROGRAMS IN AEROSPACE
BIOTECNOLOGY; INCLUDES LIFE SUPPORT, AEROSP MEDICINE, BIOMEDICAL
PROGRAMS AND RADIOBIOLOGY.PROVIDE MEDICAL EVALUATION AND CONSULTATION
FOR AIRCREWS TO ASSURE RETENTION OF FLYING STATUS.

...CURRENT IMPORTANT PROGRAMS
CREW READINESS AND CREW PROTECTION TECHNOLOGY FOR ADVANCED SYSTEMS
MEDICAL AND BIOMEDICAL ASPECTS OF AFROSPACE OPERATIONS
HEALTH EVALUATION AND RISK TABULATION (HEART)
RADIOBIOLOGY IN AFROSPACE OPERATIONS
MODELING BIOLOGICAL SYSTEMS/MAN-ATMOSPHERE ENVIRONMENT INTERACTION

...FUNCTIONS/EQUIPMENT/CAPABILITIES
RESEARCH IN AEROSP MEDICAL PROBLEMS, LIFE SUPPORT, ENVIRONMENTAL STRESS, RADIOBIDLOGY, LASER, BIOMETRICS, BIOMEDICAL ENGINEERING, ROTGE ON MEDICAL EQUIPMENT AND SYSTEMS. WHOLE BODY COUNTER, HUMAN CENTRIFUGE, TESTING CELLS, RESEARCH CHAMBERS, NEUTRON GENERATOR, KILO-CURIF COBALT 60 RADIATION SOURCE, ELECTRON MICROSCOPE SYSTEM, REMOTE INTERACTIVE GRAPHIC TERMINAL SYSTEM, THERMAL CHAMBER, CARDIAC CATH, LAB, AEROSP MED SCIENCE LAB, LASER HAZARD FACILITIES, AEROMEDICAL LIBRARY AEROSP MEDICAL EVAL AND CONSULTATIVE SERVICES, OPTICAL RESEARCH AUDIOLOGY, VESTIBULAR STUDIES, PSYCHOBIOLOGY, RADIOISOTOPE, AEROMEDICAL STANDARDS, MODELING, BIOMEDICAL RESEARCH, MEDICAL REPOSITORIES, RADIATION SCIENCES RESEARCH, BIODYNAMICS RESEARCH, DEVELOPMENTAL ENGINEERING.

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PATRICK AFR. FL.

INSTALLATION: SPACE & MISSILE TEST CENTER (DFT1)

CDR. COL.OSCAR W. PAYNE

|                | PROGRA         | M DATA BY FISO | CAL YEAR (MILLION | \$1          |
|----------------|----------------|----------------|-------------------|--------------|
| PROGRAM        |                | 1978           | 1979              |              |
|                |                | (ACTUAL)       | (ACT + FST)       |              |
| TOTAL ROTGE    |                | 0.000          | 0.000             | •            |
| TOTAL PROCURE  | 1EN T          | 4.944          | 5.073             |              |
| TOTAL CIEM     |                | 149.449        | 161.446           |              |
| TOTAL DTHER    |                | 1.727          | 2.201             |              |
| TOTAL ANNUAL E | AB             | 156.620        | 168.720           |              |
| TOTAL INHOUSE  |                | 43.317         | 41.552            |              |
| TOTAL INHOUSE  | RDYGE          | 0.000          | 0.000             |              |
| ANNUAL OPERATI | ING COST       | 30.884         | 27.112            |              |
|                | PERSONNEL D    | ATA (END OF    | FY 19701          |              |
| PERSONNEL      | AUTHORIZED     | TOTAL          | TOTAL             | NON-         |
|                | STRENGTH       | PHDS           | PROF              | PROF         |
| MILITARY       | 98             | 0              | 61                | 37           |
| CIVILIAN       | 330            | 2              | 95                | 235          |
| TOTAL          | 428            | 2              | 156               | 272          |
|                | SPA            | CE AND PROPER  | TY                |              |
| ACRES          | SPACE (THOUSAN |                |                   | (MILLION \$) |
|                |                |                | TOTAL REAL F      |              |
| 16025          | 65.937 261.    | 593 2573.930   | 2901.460 280.     | 742 328.672  |

... MISSION

SUPPORT OF LAUNCH PROGRAMS AND AIR/GROUND-LAUNCHED MISSILE SYSTEMS FROM CCAFS AND KSC. OPERATION OF THE ARIS IN SUPPORT OF JCS REQUIREMENTS. SUPPORT OF AFROSPACE DEFENSE COMMAND ON-ORBIT TRACKING REQUIREMENTS AND SUPPORT OF SPECIAL PROJECTS. DOCUMENTED R&D TESTS AND TENANT ACTIVITIES.

...CURRENT IMPORTANT PROGRAMS
FBM PROGRAMS - POLARIS, POSEIDON, TRIDENT AND CHEVALINE
MIL SPACE SUPPORT PROGRAMS - TITAN IIIC AND TITAN 34D/IUS
MIL MISSILE SUPPORT PROGRAMS - SRAM/OTGE AND PERSHING
NASA - THOR/DELTA, ATLAS/CENTAUR AND SPACE SHUTTLE PROGRAMS
DOD SPACE TRANSPORTATION PROGRAM

\*\*\*FUNCTIONS/EQUIPMENT/CAPABILITIES
ETR CAPABILITIES INCLUDE: ASSEMBLY, PRE-LAUNCH TESTING AND LAUNCH
PERFORMANCE EVALUATION OF BALLISTIC MISSILES, LAUNCH VEHICLES, SPACE—
CRAFT AND SATELLITES TO INCLUDE TRACKING, LONG DISTANCE COMMUNICATIONS,
DATA TRANSMISSION, COLLECTION AND REDUCTION, EQUIPMENT AND FACILITIES
INCLUDE MAINLAND AND DOWN-RANGE INSTRUMENTATION AND COMMUNICATIONS,
INSTRUMENTED SHIPS, SCIENTIFIC DATA PROCESSING EQUIPMENT AND FACILITIES,
PHOTO/ELECTRO-OPTICAL SYSTEMS AND SERVICES, MISSILE IMPACT LOCATION
SYSTEMS, METEOROLOGICAL MEATHER STATIONS AND EQUIPMENT, AND RANGE TIMING
SYSTEMS, DET 1, SAMTEC OPERATES AND MAINTAINS CCAFS, MAINLAND SITES AND
DOWN-RANGE STATIONS. SUPPORT FUNCTIONS INCLUDE LAUNCH SUPPORT SERVICES
AND OVERALL GENERAL MANAGEMENT OF THE ETR, INCLUDING PLANT ENGINEERING,
CONTRACTOR OPERATIONS, LABORATORIES, SHOPS AND OTHER SPECIAL SERVICES.

attention is a second of the second of the

INSTALLATION: SPACE AND MISSILE TEST CENTER

VANDENBERG AFRICA.

CDR.BG. JAMES H. MARSHALL

| 1070 1070                         |
|-----------------------------------|
| PROGRAM 1978 1979                 |
| (ACTUAL) (ACT + FST)              |
| TOTAL ROTSE 52.267 50.400         |
| TOTAL PROCUREMENT 0.000 0.000     |
| TOTAL DEM 0.000 0.000             |
| TOTAL OTHER 20.423 26.563         |
| TOTAL ANNUAL LAB 72.690 76.963    |
| TOTAL INHOUSE 17.712 20.663       |
| TOTAL INHOUSE ROTEE 10.255 12.900 |
| ANNUAL OPERATING COST 0.881 0.962 |

|           | PERSONNEL DATA | (END OF FY | 1978) |      |
|-----------|----------------|------------|-------|------|
| PERSONNEL | AUTHORIZED     | TOTAL      | TOTAL | NON- |
|           | STRENGTH       | PHDS       | PROF  | PROF |
| MILITARY  | 266            | 4          | 204   | 57   |
| CIVILIAN  | 351            | 0          | 150   | 201  |
| TUTAL     | 617            | 4          | 359   | 258  |

|       |           | SPACE AN   | D PROPERTY |         |           |          |
|-------|-----------|------------|------------|---------|-----------|----------|
| ACRES | SPACE ITH | DUSANDS OF | SQUARF FE  | ET)     | COST (MIL | LION \$) |
|       | LAB       | ADMIN      | OTHER      | TOTAL   | REAL PROP | EQUIP    |
| 55586 | 91.407    | 334.384    | 431.954    | 857.745 | 94.520    | 70.670   |

...MISSION
MANAGE FIELD TEST AND LAUNCH OPERATIONS FOR SAMSO/OTHERS. DEVELOP,
MANAGE AND OPERATE THE EASTERN AND WESTERN TEST RANGES(ETR/WTR) AS
DESIGNATED NATIONAL RANGES.

...CURRENT IMPORTANT PROGRAMS
MINUTEMAN III R AND D AND OPERATIONAL TESTING PROGRAMS.
CLASS AND UNCLAS SPACE PGMS USING ATLAS, TITAN, THOR AND SCOUT.
ADVANCED BALLISTIC REENTRY SYSTEMS PROGRAMS.
GUIDED MISSILE PROGRAMS INCLUDING CRUISE MISSILES AND BOMARC.
AIRCRAFT PROGRAMS INCLUDING 8-1,F-16618.

\*\*\*FUNCTIONS/EQUIPMENT/CAPABILITIES

SAMTEC CAPABILITIES INCLUDE TEST LAUNCH AND RANGE SUPPORT. TEST LAUNCH INCLUDES: ASSEMBLY AND PRELAUNCH TESTING OF LAUNCH VEHICLE SYSTEMS USING ATLAS, TITAN AND MM BOOSTERS; AGENA AND TITAN III UPPER STAGES; PAYLOAD AND VEHICLE INTEGRATION AND CHECKOUT; AND LAUNCH CONTROL. WTR(PACIFIC) RANGE SUPPORT INCLUDES NEAR AND FAR TERM RANGE INSTRUMENTATION PLANNING, AND DATA GATHERING ON BALLISTIC/SPACE/GUIDED MISSILE/PROBE LAUNCHES, AIR CRAFT SYSTEMS AND OTHER TESTS AT UPRANGE AND DOWNRANGE LOCATIONS. VAR—TOUS RADAR, TELEMETRY OPTICAL, DATA PROCESSING, COMMUNICATIONS AND COMMUNICATIONS AND COMMUNICATIONS AND COMMUNICATIONS AND COMMUNICATIONS AND COMMUNICATIONS AND COMMUNICATION SYSTEMS ARE AVAILABLE. LAUNCH AZIMUTHS VARY FROM 140 TO 313 DEGREES. AERONAUTICAL TESTS ARE CONDUCTED IN A WELL INSTRUMENTED OFF—SHORE TEST AREA. LAUNCH FACILITIES AND RANGE INSTRUMENTATION CAN BE RECONFIGURED TO MEET PROGRAM REQUIREMENTS.

KIRTLAND AFB, N.M.

INSTALLATION: WEAPONS LABORATORY

CDR.COL.L.L.FPPLEY

DIR.DR.W.L. LEHMANN

|                | PROGRAM       | DATA BY FISO | AL YEAR (MILLION | \$1          |
|----------------|---------------|--------------|------------------|--------------|
| PROGRAM        |               | 1978         | 1979             |              |
|                |               | (ACTUAL)     | (ACT + FST)      |              |
| TOTAL ROTEF    |               | 136.953      | 163.317          |              |
| TOTAL PROCUREM | ENT           | 0.000        | 0.000            |              |
| TOTAL DEM      |               | 0.255        | 0.245            |              |
| TOTAL OTHER    |               | 11.982       | 12.641           |              |
| TOTAL ANNUAL L | AB            | 149,190      | 176.203          |              |
| TOTAL INHOUSE  |               | 38.601       | 43.238           |              |
| TOTAL INHOUSE  | RDT&E         | 26.619       | 30.597           |              |
| ANNUAL OPERATI | NG COST       | 1.352        | 1.805            |              |
|                | PERSONNEL DA  | TA (END OF I | Y 1978)          |              |
| PERSONNEL      | AUTHORIZED    | TOTAL        | TOTAL            | NON-         |
|                | STRENGTH      | PHDS         | PROF             | PROF         |
| MILITARY       | 645           | 51           | 380              | 265          |
| CIVILIAN       | 480           | 36           | 240              | 240          |
| TOTAL          | 1125          | 87           | 650              | 505          |
|                | SPAC          | E AND PROPER | TY               |              |
| ACRES          |               |              | FEET) COST       | (MILLION \$) |
|                | LAB ADA       | IN OTHER     | TOTAL REAL       | PROP EQUIP   |
| 702            | 556.000 142.0 | 000 134.000  | 832 - 000 98     | .233 69.854  |

...MISSION

RESPONSIBLE FOR EXPLORATORY, ADVANCED, AND ENGINEERING DEVELOPMENT IN NUCLEAR WEAPONS FFFECTS, COMPONENTS, RADIATION HAZARDS, NUCLEAR SURVIVABILITY/WILNFRABILITY, HIGH ENERGY LASER SYSTEMS, ADVANCED WEAPON TECHNOLOGY, AND LASER WEAPON TECHNOLOGY.

...CURRENT IMPORTANT PROGRAMS
ADVANCED RADIATION TECHNOLOGY
ADVANCED WE'PON TECHNOLOGY
NUCLEAR SURVIVABILITY/VULNERABILITY ANALYSIS AND TESTING
NUCLEAR SAFETY ANALYSIS AND DESIGN CRITERIA
NUCLEAR WEAPONS FFFECTS ANALYSIS AND TESTING

...FUNCTIONS/EQUIPMENT/CAPABILITIES
NUCLEAR WEAPONS EFFECTS SIMULATION, SAFETY, COMPONENT ASSESSMENT AND
ANALYSIS OF WEAPONS SYSTEMS NUCLEAR HARDNESS ARE CONDUCTED IN
ENGINEERING TEST LABORATORIES AND PHYSICS LABORATORIES. SIMULATION
TESTS ON MISSILES, AIRCRAFT, AND COMPONENTS USE FLECTROMAGNETIC PULSE
SIMULATORS, GAS GUNS, AND X-RAY DEVICES. CIVIL ENGINEERING PROGRAMS
USE SHOCK TUBES AND HIGH EXPLOSIVES FOR, SIMULATION OF NUCLEAR BLAST
AND SHOCK. LASER SYSTEMS DEVELOPMENT USES LASER/OPTICS LABORATORIES
AND TEST RANGES WITH LARGE, HIGH POWER DEVICES. A TECHNICAL LIBRARY,
METALLURGY AND METROLOGY LABORATORIES, 2 CYBER 176 AND 2 CDC-6600
COMPUTERS WITH REMOTE ACCESS TERMINALS AND MULTI-CHANNEL SENSING/
RECORDING AND DATA REDUCTION SUPPORT ALL REQUIRING ROT/E PROGRAMS.

and a second reserve to the leaves of milestraters of the real about the of the best and a second as the reserved

INSTALLATION: 4950 TEST WING

WPAFB . OH .

CDR.COL.P.W. ODGERS

TECH.DIR.MR.P.J. CORCORAN

| PROGRAM DATA BY FISCAL | . YEAR (MILLION \$)                                                                 |
|------------------------|-------------------------------------------------------------------------------------|
| 1978                   | 1979                                                                                |
| (ACTUAL)               | ACT + FST)                                                                          |
| 39.367                 | 40.243                                                                              |
| 0.000                  | 0.000                                                                               |
| 2.000                  | 2.000                                                                               |
| 0.017                  | 0.018                                                                               |
| 41.384                 | 47.761                                                                              |
| 41.087                 | 41.898                                                                              |
| 39.070                 | 39.880                                                                              |
| 0.014                  | 0.014                                                                               |
|                        | 1978<br>(ACTUAL)<br>39.367<br>0.000<br>2.000<br>0.017<br>41.384<br>41.087<br>39.070 |

|           | PERSONNEL DATA | (END OF F | Y 1978) |      |
|-----------|----------------|-----------|---------|------|
| PERSONNEL | AUTHORIZED     | TOTAL     | TOTAL   | NON- |
|           | STRENGTH       | PHDS      | PROF    | PROF |
| MILITARY  | 863            | 1         | 183     | 680  |
| CIVILIAN  | 1068           | 0         | 94      | 974  |
| TOTAL     | 1931           | 1         | 277     | 1654 |

|       |            | SPACE AN  | D PROPERTY | <i>t</i> |           |          |
|-------|------------|-----------|------------|----------|-----------|----------|
| ACRES | SPACE (THO | USANDS OF | SQUARE FI  | FFT)     | COST (MIL | LION \$7 |
|       | LAR        | ADMIN     | OTHER      | TOTAL    | REAL PROP | FOUTP    |
| 227   | 0.000      | 68.320    | 973.152    | 1041.472 | 11.966    | 277.290  |

...MISSION

DOD MAJ TEST FAC. PERFORMS T&E ON MIL SYS, SUBSYS, AND COMP. OPER & MAIN ASGN TEST SUP ACET AND ANCIL EQUIP. MANAGES A CENTRAL FAC FOR MAJ MOD OF AFSC ACET. GPER SHOP FAC IN SUP OF CMD ACET CLASS II MODS AND AFWAL R&D PROGMS. PROVIDES FLT TST ENGRG, TECH DATA ACQ, AND TECH PHOTO SYCS.

...CURRENT IMPORTANT PROGRAMS
ARIA SUPPORT TO NASA
AEROSPACE FLIGHT DYNAMICS LAB SUPPORT
INFRARED WARNING RECEIVER
TITAN IIIC
AIRBORNE LASER LAB CYCLE III

...FUNCTIONS/EQUIPMENT/CAPARILITIES

43 TEST SUPPORT AIRCRAFT (8 ARIA EC-135)
ALL AFSC MAJOR CLASS II AIRCRAFT MODIFICATIONS
MISSLE LAUNCH/REENTRY TRACKING AND DATA RELAY
WORLDWIDE TEST SUPPORT CAPABILITY
1400 SQUARE MILE RESTRICTED TEST APFA IN OHIO
FLIGHT TEST ENGINEERING (AERO-MECHANICAL, AVIONICS, AND ARIA
TEST DATA ACQUISITION/PROCESSING/ANALYSIS
3 OPERATIONAL SOS(FLIGHT CREWS) AND 3 MAINTENANCE SOS
SPECIALIZED SHOP EQUIP METAL/WOOD WORKING, MODELING, & DATA AUTOMATION
TECHNICAL PHOTOGRAPHIC INSTRUMENTATION & PROCESSING
CENTRAL AFSC AT WPAFB PMEL SERVICES
ASD LABORATORY MATERIAL CONTROL ACTIVITY

Section Section Contraction of the Section of

INSTALLATION: 6570 AEROSPACE MEDICAL RESEARCH LABORATORY WPAFR, OH.
CDR.COL.ROY L. DEHART

|                       | PROGRAM DATA BY FISCAL | L YEAR (MILLION \$) |
|-----------------------|------------------------|---------------------|
| PROGRAM               | 1978                   | 1979                |
|                       | (ACTUAL)               | (ACT + EST)         |
| TOTAL RDT .E          | 14.534                 | 14.051              |
| TOTAL PROCUREMENT     | 0.000                  | 0.000               |
| TOTAL DEM             | 0.000                  | 0.000               |
| TOTAL OTHER           | 0.000                  | 0.000               |
| TOTAL ANNUAL LAB      | 14.534                 | 14.051              |
| TOTAL INHOUSE         | 6.193                  | 5.715               |
| TOTAL INHOUSE ROTGE   | 6.193                  | 5.715               |
| ANNUAL OPERATING COST | 0.700                  | 0.700               |
| PERC                  | ONNEL DATA JEND DE EV  | 19781               |

|           | PERSUNNEL DATA | LEND OF P | T 1978) |      |
|-----------|----------------|-----------|---------|------|
| PFRSONNEL | AUTHORIZED     | TOTAL     | TOTAL   | NON  |
|           | STRENGTH       | PHD\$     | PROF    | PROF |
| MILITARY  | 136            | 5         | 39      | 97   |
| CIVILIAN  | 158            | 24        | 99      | 59   |
| TOTAL     | 294            | 29        | 138     | 156  |

|       |            | SPACE AN   | D PROPERTY |         |            |          |
|-------|------------|------------|------------|---------|------------|----------|
| ACRES | SPACE (THE | SUSANDS OF | SQUARF FEF | T)      | COST (MILI | LION \$) |
|       | LAB        | ADMIN      | OTHER      | TOTAL   | REAL PROP  | EQUIP    |
| 30    | 71.886     | 43.129     | 51.100     | 166.115 | 19.213     | 27.400   |

#### ...MISSION

ACCOMPLISH BEHAVORIAL AND BIOMEDICAL RESEARCH AND DEVELOPMENT TO DEFINE HUMAN TOLERANCE AND DEGRADATION OF HUMAN PERFORMANCE UNDER THE CONDITION OF ENVIRONMENTAL STRESS ASSOCIATED WITH AEROSPACE OPERATIONS AND PROVIDE SUPPORT TO SYSTEM DEVELOPMENT IN THE ABOVE AREAS.

#### ... CURRENT IMPORTANT PROGRAMS

DEFINE TOXIC HAZARDS, ENVIR POLLUTION EFF OF MISSILE OPS-PROPELLANT TEST. DEFINE EFFECT OF CREW PERF ON MANNED WEAPON SYSTEM EFFECTIVENESS. DEV UNTICAL COUNTERMEASURE MECHANISMS FOR ADV DEV PROGRAM APPLICATIONS. EFF OF OPERATIONAL RISE AND VIBRATION ENVIRONMENTS ON AF PERSONNEL-OPS. INV OF COMBINED STRESSES AND THEIR IMPACT ON HUMAN OPERATOR PERF METRICS

#### ...FUNCTIONS/EQUIPMENT/CAPABILITIES

HUMAN DECELERATION SYSTEM TO SIMULATE THE COMPLEX ACCELERATION ENVIRON ASSOCIATED WITH EJECTION AND CRASH LANDING DYNAMIC ENVIRONMENT SIMULATOR A SIX DEGREE OF FREEDOM MAN-RATED CENTRIFUGE USED TO SIMULATE SUSTAINED ACCELERATIONS SUCH AS THOSE ENCOUNTERED IN AIR COMBAT MANUVERING THOMAS DOMES-EIGHT ALTITUDE EXPOSURE CHAMBERS TO SIMULATE FXOTIC ARTIFICIAL ATMOSPHERIC CONDITIONS HUMAN ENGINEERING SYSTEMS SIMULATOR FACILITY USED TO PERFORM REAL-TIME MAN-IN-THE-LOOP EXPERIMENTS AND DATA ANALYSIS. ANECHOIC AND REVERBERATION CHAMBERS TO ENABLE EXPERIMENTAL INVESTIGATIONS OF POTENTIALLY HAZARDOUS NOISE TO DETERMINE EFFECTS ON BODY FUNCTION AND PERFORMANCE VIVARIUM-LABORATORY RESEARCH ANIMAL FACILITY.

HOLLOMAN AFB, N.M.

FQUIP

38.828

INSTALLATION: 6585TH TEST GROUP

CDR.COL.JAMES S. THOMPSON

|               | PROGRAM D        |            | CAL YEAR (MILLION | \$)         |
|---------------|------------------|------------|-------------------|-------------|
| PROGRAM       |                  | 1978       | 1979              |             |
|               | (A)              | CTUAL)     | (ACT + EST)       |             |
| TOTAL ROTGE   | •                | 12.039     | 11.949            |             |
| TOTAL PROCURE | MENT             | 0.000      | 0.000             |             |
| TOTAL DAM     |                  | 3.250      | 3.670             |             |
| TOTAL OTHER   |                  | 4.162      | 4.390             |             |
| TOTAL ANNUAL  | LAB              | 19.451     | 20.009            |             |
| TOTAL INHOUSE |                  | 11.715     | 11.923            |             |
| TOTAL INHOUSE | E RDT&E          | 7.553      | 7.533             |             |
| ANNUAL OPERAT | TING COST        | 0.065      | 0.070             |             |
|               | PERSONNEL DATA   | IFND OF    | FY 1978)          |             |
| PERSONNEL     | AUTHORIZED       | TOTAL      | TOTAL             | NON-        |
|               | STR FNGTH        | PHDS       | PROF              | PROF        |
| MILITARY      | 325              | 3          | 75                | 250         |
| CIVILIAN      | 290              | 3          | 85                | 205         |
| TOTAL         | 615              | 6          | 160               | 455         |
|               | SPACE            | AND PROPER | TY                |             |
| ACRES         | SPACE (THOUSANDS |            |                   | IMTEL TON S |

# 6602 ...MISSION

DOD FOCAL POINT FOR TESTING AND EVALUATION OF INERTIAL GUIDANCE SYSTEMS AND COMPONENTS. OPERATES HIGH SPEED TEST TRACK FOR AERUOYNAMIC, EJECTION GUIDANCE TESTING, MEASURES RADAR CROSS SECTIONS, AND ANYENNA PATTERNS OF SPACECRAFT, MISSILES, AIRCRAFT, RVS AND OTHER TARGETS.

OTHER

148.000

TOTAL

491.000

REAL PROP

10.220

ADMIN

7.000

#### ... CURRENT IMPORTANT PROGRAMS

26GIN. CENTRIFUGE IMPROVEMENT , IMP ACCY OF G LVL AND COUNTERROTATION, SLED TEST DATA ACQUISITION, IMP SLEDBORNE DATA COLLECTION, STORAGE. HYPERSONIC SLED TECH, DEVEL MONORAIL SLED FOR 25LB PAYLOAD AT 10000 FPS. ADVANCED SLED VELOCITY MEASUREMENT SYST, DEVEL ACCURATE MAGNETIC VMS. RAINFIELD UPGRADE, IMP ACCY OF FLOW RATE, DROP SIZE DISTRIBUTION.

#### ... FUNCTIONS/EQUIPMENT/CAPABILITIES

LAB

336.000

1-260IN , 2-100IN PRECISION CENTRIFUGES, MAX 100G WITH 300 LB PAYLOAD. PRECISION GRND , ABN TEST FCLTY. PRECISION REFERENCE , DATA COLLECTION CAPABILITIES. COMPLETE DATA , PERFORMANCE ANALYSIS CAPABILITY. ENVIRONMENTAL CHAMBERS FOR COMBINED ENVIRONMENTAL RELIABILITY TESTING. INERTIAL NAV TEST VAN. CONTINUOUS 50788 FT TEST TRACK (2-RAIL, 35588 FT, 3-RAIL 15200 FT), 5 BLOCKHOUSES, 2 INSTRMN STATIONS, SPECIALIZED SITES FOR AIRBLAST, EJECTION, IMPACT TESTING, 9000 FT TRACKSIDE, 2000 FT BALL RAINFIELD. ROCKET SLED , PROPLSN SYST INV. RADAR TARGET SCATTER FAC TO MEA RADAR CROSSECTION , ANTENNA PTRNS FROM 30 MHZ TO 95 GHZ. MEASURE MONOSTATIC , BISTATIC AMP, PHASE, DOPPLER, GLINT AND JET ENGINE MODULA—TION OF RETURN. PRECIS MODEL BLDG FACIL FOR FULL , REDUCED SCALE MOLS OF TARGETS. IR SIGNATURE MEASUREMENT CAPABILITY.

INSTALLATION: ARMED FORCES RADIOBIOLOGY RSCH.INSTITUTE

BETHESDA.MD.

CDR.COL.DARRELL W. MCINDOE

|                | PROGRA            | M DATA BY FISCA  | L YEAR IMILLION | \$ )         |
|----------------|-------------------|------------------|-----------------|--------------|
| PROGRAM        |                   | 1978             | 1979            |              |
|                |                   | (ACTUAL)         | (ACT + EST)     |              |
| TOTAL ROTGE    |                   | 7.072            | 7.415           |              |
| TOTAL PROCUREM | ENT               | 0.000            | 0.000           |              |
| TOTAL DEM      |                   | 0.000            | 0.000           |              |
| TOTAL OTHER    |                   | 1.744            | 1.960           |              |
| TOTAL ANNUAL L | AB                | 8.816            | 9.375           |              |
| TOTAL INHOUSE  |                   | 8.816            | 9.375           |              |
| TOTAL INHOUSE  | RDT&F             | 7.072            | 7.415           |              |
| ANNUAL OPERATI | NG COST           | 1.669            | 1.794           |              |
|                | PERSONNEL D       | ATA (END OF FY   | 1978)           |              |
| PFRSONNEL      | <b>AUTHORIZED</b> | TOTAL            | TOTAL           | NON-         |
|                | STRENGTH          | PHDS             | PROF            | PROF         |
| MILITARY       | 89                | 32               | 58              | 31           |
| CIVILIAN       | 129               | 20               | 42              | 87           |
| TOTAL          | 218               | 52               | 100             | 118          |
|                | SPA               | CE AND PROPERTY  |                 |              |
| ACRES          | SPACE (THOUSAN    | IDS OF SQUARE FE | FT) COST        | (MILLION \$) |
|                |                   | MIN OTHER        | •               | PROP FOUIP   |
| 10             |                   | 049 56.834       |                 | .911 4.512   |

# ...MISSION

THE MISSION OF AFRRI SHALL BE TO CONDUCT SCIENTIFIC RESEARCH IN THE FIELD OF RADIOBIOLOGY AND RELATED MATTERS THAT ARE ESSENTIAL TO THE MEDICAL SUPPORT OF THE DEPARTMENT OF DEFENSE.

...CURRENT IMPORTANT PROGRAMS
DEFINE PHYSIOLOGICAL/PATHOLOGICAL RESPONSE IN HUMANS TO RADIATION.
ASSESS EFFECTS OF COMBINED INJURIES, MILITARY FORCES/NONCOMBATANTS.
DATA FOR PREDICTION OF COMBAT INEFFECTIVENESS AND CASUALTY PRODUCTION.
TREATMENT METHODS FOR CASUALTIES FROM RADIATION/COMBINED INJURY.
INSTRUCTION TO ARMED SERVICES ON TREATMENT OF NUCLEAR CASUALTIES.

#### ...FUNCTIONS/EQUIPMENT/CAPABILITIES

FUNCTIONS: OPERATE FACILITIES FOR CONDUCTING RADIOBIOLOGY RESEARCH AND DISSEMINATING RESULTS. CONDUCT ADVANCED TRAINING. OPERATE FACILITIES FOR PRODUCTION OF SHORT-LIVED RADIOISOTOPES. PERFORM OTHER SUCH RESEARCH FUNCTIONS AS REQUIRED.

MAJOR EQUIPMENT INCLUDES: PULSE AND STEADY STATE NUCLEAR REACTOR, 200,000-CURIE COBALT-60 IRRADIATOR, ELECTRON LINEAR ACCELERATOR, X-RAY MACHINES WITH ASSOCIATED EXPOSURE ROOM COMPLEXES.

SUPPORT SERVICES INCLUDE: MEASUREMENT OF RADIATION FIELDS, PROVISION AND CARE OF LABORATORY ANIMALS, EQUIPMENT DESIGN AND FABRICATION ASSISTANCE, REAL-TIME DATA ACQUISITION SYSTEM, TELEVISION AND FILM DOCUMENTATION OF EXPERIMENTS, PERSONNEL AND ENVIRONMENTAL MONITORING, EDITORIAL ASSISTANCE IN REPORT PREPARATION, AND A LARGE TECHNICAL LIBRARY.

Secretary and the second of the second of

#### APPENDIX I

# DISESTABLISHMENT, ESTABLISHMENT OR CHANGES IN ORGANIZATION OR NAME\*

# DEPARTMENT OF THE ARMY

AS OF OR PRIOR TO 1 OCTOBER 1978

AIRBORNE BOARD

Ft Bragg, NC

ESTABLISHED

AIRBORNE COMMUNICATIONS AND

ELECTRONICS BOARD

Ft Bragg, NC

DISESTABLISHED

AIR MOBILITY R&D LABORATORY

Moffett Fleld, CA

DISESTABLISHED

AVIATION RESEARCH & TECHNOLOGY LABS

Moffett Field, CA

ESTABL! SHED

AVIONICS LABORATORY

Ft Monmouth, NJ

DISESTABLISHED

AVIONICS R&D ACTIVITY

Ft Monmouth, NJ

ESTABLISHED

COMMUNICATIONS AND ELECTRONICS BOARD

Ft Gordon, GA

ESTABLISHED

COMMUNICATIONS ADP LABORATORY

Ft Monmouth, NJ

DISESTABLISHED

COMMUNICATIONS R&D COMMAND

Ft Monmouth, NJ

ESTABLISHED

ELECTRONICS R&D COMMAND TECHNICAL SUPPORT ACTIVITY

Ft Monmouth, NJ

ESTABLISHED

HQ MED R&D CMD

ay rash kan crib

ESTABLISHED

Ft Detrick, Fredorick, MD

HQ USAMRDC

DISESTABLISHED

Washington, DC

INTELLIGENCE AND SECURITY BOARD

Ft Huachucha, AZ

ESTABLISHED

MISSILE R&D COMMAND

Redstone Arsonal, AL

ESTABLISHED

# APPENDIX I

# DISESTABLISHMENT, ESTABLISHMENT OR CHANGES IN ORGANIZATION OR NAME\*

# DEPARTMENT OF THE ARMY (contd)

AS OF OR PRIOR TO 1 OCTOBER 1978

MISSILE RD&E COMMAND Redstone Arsenal AL

DISESTABLISHED

NIGHT VISION & ELECTRO-OPTICS

ESTABLISHED

LABORATORY Ft Belvoir, VA

NIGHT VISION LABORATORY

DISESTABLISHED

Ft Belvoir, VA

R&D TECHNICAL SUPPORT ACTIVITY

DISESTABLISHED

Ft Monmouth, NJ

SIGNALS WARFARE LABORATORY

ESTABLISHED

Vint Hill, VA

TANK AND AUTOMOTIVE R&D COMMAND

DISESTABLISHED

Warren, MI

TANK-AUTOMOTIVE R&D COMMAND

ESTABLISHED

Warren, MI

# DEPARTMENT OF THE NAVY

BLOOD RESEARCH LABORATORY

DISESTABLISHED

Chelsea, MA

# DEPARTMENT OF THE AIR FORCE

EASTERN TEST RANGE

DISESTABLISHED

Patrick AFB, FL

Patrick AFB, FL

SPACE & MISSILE TEST CENTER (DET1) ESTABLISHED. Name Change from

MARCH CONTROL OF THE STREET OF THE STREET

Eastern Test Range

4950 TEST WING

**ESTABLISHED** 

Wright Patterson AFB, OH

Changes since publication of Department of Defense In-House RDT&E Activities, 30 October 1977.

#### APPENDIX II

# Definitions

- 1. IN-HOUSE RDTE ACTIVITIES—Those organizational entities engaged in performing work in any or all of the categories of research, development, test, and evaluation. The RDTE effort, however, should represent a minimum of 25 percent of the total effort of each entity reporting in order to be considered as an RDTE activity.
- 2. PROFESSIONALS—Full-time government sci tific and engineering personnel actively engaged in RDTE activities. In the case of civilians this will include all those holding positions that fall into the following categories under the Civil Service Occupational Groups and Series of Classes, General Schedule:

| 101 | 436  | 665 | 850  | 1226  | 1382 |
|-----|------|-----|------|-------|------|
| 150 | 437  | 668 | 855  | 1.301 | 1384 |
| 180 | 44() | 680 | 861  | 1306  | 1386 |
| 184 | 454  | 690 | 871  | 1310  | 1510 |
| 190 | 457  | 695 | 880  | 1313  | 1515 |
| 193 | 460  | 696 | 881. | 1315  | 1520 |
| 401 | 470  | 801 | 890  | 1320  | 1529 |
| 403 | 471  | 803 | 892  | 1.321 | 1530 |
| 405 | 482  | 804 | 893  | 1330  | 1540 |
| 410 | 487  | 806 | 894  | 1.340 |      |
| 413 | 601  | 808 | 896  | 1350  |      |
| 414 | 602  | 810 | 1221 | 1360  |      |
| 430 | 644  | 819 | 1223 | 1370  |      |
| 434 | 660  | 830 | 1224 | 1372  |      |
| 435 | 662  | 840 | 1225 | 1380  |      |

Military professionals, both officer and enlisted, actively engaged in RDTE activities should be identified with the functions described in the above referenced civilian job series. Lawyers, accountants, chaptains, social workers, and educators should be excluded.

3. TECHNICIANS—Generally nonprofessionals working on an RITE project or program in support of a professional. In the case of civilians, it will include, but will not necessarily be limited to, those holding positions that fall into the following categories of the Civil Service Occupational Groups and Series of Classes, General Schedule:

| 181 | 646 | 699    |   | 1371    |
|-----|-----|--------|---|---------|
| 404 | 647 | 704    |   | 1374    |
| 421 | 649 | 802    |   | 1521    |
| 455 | 650 | 817    |   | 1.5.3.1 |
| 458 | 661 | 818    |   | 1541    |
| 462 | 667 | 856    |   |         |
| 622 | 681 | 895    |   |         |
| 625 | 682 | 1311   |   |         |
| 636 | 683 | 1.31.6 | • |         |
| 645 | 698 | 1341   |   |         |

Discretion will have to be exercised by each RDT&E activity in determining the number of military technicians. Generally, they should follow the guidelines established in defining civilian technicians and can be identified in DoD 1312.1-E.

- 4. Real Property Cost--Each reporting activity will be responsible for determining and reporting the cost of real property. This cost should be established in accordance with the guidelines and definitions in DoD Instruction 4165.14. This should also include the cost of installed equipment.
- 5. Equipment Cost--Each reporting activity will be responsible for determining and reporting the cost of personal property. This cost should be established in accordance with the guidelines and definitions in DoD Instruction 4165.14. This should also include the cost of installed equipment.
- 6. Space--The data to be furnished should include only walled and roofed building space. It should not include such things as parking lots, open storage areas, lean-tos, etc. The source of data may be the annual report submitted in compliance with the requirements of DoD Instruction 4165.14.
- 7. In-House Obligations—Obligations reported under this category are for activities performed, or to be performed, by the organizational entity. Their work is carried on directly by their own personnel. Particular care should be taken to include under in-house performance the cost of supplies and equipment essentially of an off-the-shelf nature that are procured for use in in-house research and development, plus such things as travel, publications, and other types of services in support of in-house functions and M.P.A. Excluded from the in-house total are expenses for planning and administering programs by DoD personnel of contracts and grants for out-of-house work and M.C.A.
- 8. Out-of-House Obligations-Obligations reported under this category are for activities performed, or to be performed, by other than the organizational entity. Out-of-house performers may include other departmental or DoD organizational entities, industrial firms, educational institutions, not-for-profit institutions, and private individuals. Included as out-of-house work are all expenses paid the out-of-house performers, as well as the expenses incurred in planning and administering these programs by personnel of the organizational entity. This would also include travel and other supporting services.
- 9. Annual Operating Cost—This should generally reflect the overhead cost of operating the laboratory or facility. It should include such things as costs of utilities, rents, janitorial services, guard and fire protection, support services such as supply personnel, printing, maintenance of buildings and grounds, etc. It should not include the salaries of direct labor personnel such as scientists, engineers, technicians, draftsmen, machinists, etc.

#### APPENDIX III

# Selected Standard Abbreviations and Acronyms

AAM -- air-to-air missile GCA -- ground-controlled approach AAW -- antiair warfare ADPE -- automatic data-processing HF -- high-frequency equipment AEDC -- Arnold Engineering IFF -- identification, friend or foe Development Center IR - infrared AFMDC -- Air Force Missile Development Center MPT -- military potential test AFSC -- Air Force Systems Command AFWET -- Air Force weapons effec-NAF -- Naval Air Facility NASA -- National Aeronauties and Space tiveness testing APG -- Aberdeen Proving Ground Administration ARPA -- Advanced Research Projects NASC -- Naval Air Systems Command Agency NAVORD -- Naval Ordnance Systems Command ASW -- antisubmarine warfare NAVSHIP -- Naval Sh'p Systems Command AUS -- Army United States NEMP -- nuclear electromagnetic propagation BIS -- Board of Inspection and PI -- product improvement Survey POL -- petroclum oil, lubricants BW -- biological warfare OA -- quality assurance CBR -- chemical, biological QMDO -- qualitative materiel development radiological objective CE -- Chief of Engineers, Army QMR -- qualitative materiel requirement CG -- commanding general CNO -- Chief of Naval Operations RDT&E -- Research, development, test and COMMEL -- communications evaluation electronics RF -- radio frequency RV -- reentry vehicle DA -- Department of the Army DARCOM -- Department of the Army SATS -- short airfield tactical support Materiel and Readiness SDR -- small development requirement Command SI -- ship installation DASA -- Defense Atomic Support SP -- self-propelled Agency ST -- service test DoD -- Department of Defense DZ -- drop zone T&E -- test and evaluation ECM -- electronic countermeasures TOTO -- Tongue-of-the Ocean ED -- engineering development EDT -- engineering development & UDT -- underwater demolition team test ULMS -- Undersea Long-Range Missile EEG -- electroencephalogram System EKG -- electrocardigram USATECOM -- US Army Test and Evaluation ELINT -- electronic intelligence Command EMP -- electromagnetic propagation UTTAS -- utility tactical transport EMW -- electromagnetic warfare aircraft system EODC -- Explosive Ordnance USW -- undersea warfare Disposal Center UV -- ultraviolet ET -- engineering test FA -- field artillery V/STOL -- vertical/short takeoff and FBM -- fleet ballistic missile landing 113

the second secon

# APPENDIX IV

# KEY WORD OR ACTIVITY

|                                      |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   | PAGE    |
|--------------------------------------|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| <u>AIRCRAFT</u>                      |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| AIR DEVELOPMENT CENTER               |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 56<br>9 |
| AVIATION ENGINEERING LIGHT ACTIVIT   | v   | ٠ | • | • | • | ٠ | • | ٠ | • | • | • | ٠ | ٠ | ٠ | • | 8       |
| AVIATION BOARD                       |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 7       |
| AVIONICS R&D ACTIVITY                |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 10      |
| FLIGHT DYNAMICS LABORATORY           |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 93      |
| FLIGHT TEST CENTER                   |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 94      |
| AIRCRAFT ENGINES:                    |     |   |   |   |   |   |   |   | , |   |   |   |   |   |   |         |
| AERO PROPULSION LABORATORY           |     |   |   |   |   |   |   | ٠ |   |   |   |   |   |   |   | 88      |
| AIR FROPULSION CENTER                |     | • | ٠ |   | • | ٠ |   |   |   |   |   |   |   |   |   | 58      |
| ARNOLD ENGINEERING DEVELOPMENT CENT  | ER  | • | ٠ | • | • | • | • | • | • | ٠ | • | ٠ | • | • | • | 90      |
| AIR MOBILITY:                        |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| AVIATION R&T LABORATORIES            |     | • | • | • | • | • |   | • | • | • | • |   | • | • | • | 9       |
| AIR TO AIR MISSILES:                 |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| ORDNANCE MISSILE TEST FACILITY (NAV  | /Y) |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 79      |
| PACIFIC MISSILE TEST CENTER          |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 79      |
| WEAPONS CENTER                       |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 86      |
| AMMUNITION:                          |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| ARMAMENT DEVELOPMENT & TEST CENTER   |     | • |   |   | • |   |   |   |   |   |   |   |   |   |   | 89      |
| ARMOR AND ENGINEER BOARD             |     |   |   | • |   | ٠ |   |   |   |   |   | • |   |   |   | 5       |
| BALLISTIC RESEARCH LABORATORY        |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 11      |
| EXPLOSIVE ORDNANCE DISPOSAL FACILITY |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 70      |
| FIRE CONTROL & SMALL CALIBER WEAPON  |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 27      |
| LARGE CALIBER WEAPONS SYSTEMS LABOR  |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 35      |
| MATERIEL TESTING DIRECTORATE, APG    |     | ٠ | ٠ | ٠ | • | • | ٠ | • | • | • | ٠ |   | • |   | • | 39      |

| PAGI                                        | i,  |
|---------------------------------------------|-----|
| MPHIBIOUS OPERATIONS:                       |     |
| OASTAL SYSTEMS CENTER                       |     |
| NTIAIRCRAFT DEFENSE SYSTEMS:                |     |
| IR DEFENSE BOARD                            | В   |
| NTIMISSILE DEFENSE SYSTEMS:                 |     |
| WAJALETN MISSILE RANGE                      | 4   |
| NTISUBMARINE WARFARE:                       |     |
| TR DEVELOPMENT CENTER (NAVY)                | 714 |
| RCHITECTURAL:                               |     |
| ONSTRUCTION ENGINEERING RESEARCH LABORATORY | 3   |
| RCTIC ENVIRONMENTAL TESTING:                |     |
| RCTIC RESEARCH LABORATORY                   | 3   |

|                                                                  |           |      |    |     |   |   |   |   |    |   |   |   |   |   |   |   |    | PAGE     |
|------------------------------------------------------------------|-----------|------|----|-----|---|---|---|---|----|---|---|---|---|---|---|---|----|----------|
| ARTILLERY AND GUNS:                                              |           |      |    |     |   |   |   |   |    |   |   |   |   |   |   |   |    |          |
| COLD REGIONS TEST CENTER                                         |           |      |    |     |   |   | • |   |    |   |   |   |   |   |   |   |    | 14       |
| FIELD ARTILLERY BOARD                                            |           |      |    |     |   |   |   |   |    |   |   |   |   |   |   |   |    | 26       |
| FIRE CONTROL & SMALL CALIBER WEA                                 |           |      |    |     |   |   |   |   |    |   |   |   |   |   |   |   |    | 27       |
| LARGE CALIBER WEAPONS SYSTEMS LA MATERIEL TESTING DIRECTORATE, A | bG<br>VRC | ) KA | TT | )KY |   | ٠ | ٠ | ٠ | •  | ٠ | • |   | • | • | ٠ | • | 14 | 35<br>39 |
| PROTEST AND CHO DENDOLORALLY AL                                  |           | •    | •  | •   | • | • | • | • | •  | • | • | • | • | • | • | • | •  | ۰, د     |
| ATOMIC PROPERTIES:                                               |           |      |    |     |   |   |   |   |    |   |   |   |   |   |   |   |    |          |
| ARMOR AND ENGINEER BOARD                                         |           |      |    |     |   |   |   |   |    |   | • |   |   |   |   |   |    | 5        |
| BALLISTIC RESEARCH LABORATORY                                    |           |      |    |     |   |   |   | ٧ |    |   |   |   |   |   |   |   |    | 11       |
| INSTITUTE OF DENTAL RESEARCH .                                   |           |      |    |     |   |   |   |   |    |   |   |   |   |   |   |   |    | 31       |
| WEAPONS EVALUATION FACILITY                                      | ٠         | •    | •  | •   | ٠ | ٠ | • | • | •  | • | • | • | ٠ | • | ٠ | ٠ | ٠  | 87       |
| AUTOMOTIVE VEHICLES:                                             |           |      |    |     |   |   |   |   |    |   |   |   |   |   |   |   |    |          |
| MATERIEL TESTING DIRECTORATE APO                                 |           |      |    |     |   |   |   |   |    |   |   |   |   |   |   |   |    | 39       |
| TANK-AUTOMOTIVE R&D COMMAND LABO                                 |           |      |    |     |   |   |   |   |    |   |   |   |   |   |   |   |    | 50       |
| YUMA PROVING GROUND                                              | ٠         | •    | ٠  | ٠   | • | ٠ | • | ٠ | ٠  | • | • | • | ٠ | ٠ | ٠ | ٠ | •  | 54       |
| AVIONICS:                                                        |           |      |    |     |   |   |   |   |    |   |   |   |   |   |   |   |    |          |
| AVIONICS LABORATORY (AIR FORCE)                                  | ٠         |      |    |     |   |   |   |   | ** |   |   |   |   |   |   | • |    | 91       |
| AVIONICS R&D ACTIVITY (ARMY) .                                   |           |      |    |     |   |   |   |   |    |   |   |   |   |   |   |   |    | 10       |
| BALLISTIC RESEARCH LABORATORY                                    | •         | •    | •  | •   | • | ٠ | • | ٠ | •  | • | • | • | ٠ | • | • | • |    | 11       |
| BIOLOGICAL WARFARE:                                              |           |      |    |     |   |   |   |   |    |   |   |   |   |   |   |   |    |          |
| CHEMICAL SYSTEMS LABORATORY                                      |           |      |    |     |   |   |   |   |    |   |   |   |   |   |   |   |    | 12       |
| DUGWAY PROVING GROUND                                            |           |      |    |     |   |   |   |   |    |   |   |   |   |   |   |   |    | 19       |
| SCHOOL OF AEROSPACE MEDICINE .                                   |           |      |    |     |   |   |   |   |    |   |   |   |   |   |   |   |    | 101      |

|                                               |         |     |     |     | PAG | E   |
|-----------------------------------------------|---------|-----|-----|-----|-----|-----|
| BLOOD:                                        |         |     |     |     |     |     |
| BLOOD RESEARCH LABORATORY                     |         | • • |     |     | . 6 |     |
| BURN: (INJURIES)                              |         |     |     |     |     |     |
| INSTITUTE OF SURGICAL RESEARCH                |         |     |     |     | . 3 | 2   |
| CHEMICAL WARFARE:                             |         |     |     |     |     |     |
| CHEMICAL SYSTEMS LABORATORY                   |         |     | • • | • • | . 1 |     |
| CLOTHING:                                     |         |     |     |     |     |     |
| AIR DEVELOPMENT CENTER                        |         | • • |     | • • | . 5 | 5   |
| COASTAL REGIONS.                              |         |     |     |     |     |     |
| COASTAL SYSTEMS CENTER                        | • • •   | • • | • • |     | . 6 | 6   |
| COLD REGIONS:                                 |         |     |     |     |     |     |
| ARCTIC RESEARCH LABORATORY                    |         | • • | • • |     | . 6 | . 3 |
| COMBAT SURVEILLANCE:                          |         |     |     |     |     |     |
| COMBAT SURVEILLANCE & TARGET ACQUISITION LABO | )RATORY |     |     |     | . 1 | .5  |

|                                              |   |   |   |   |   |   |   |   |   | PAGE |
|----------------------------------------------|---|---|---|---|---|---|---|---|---|------|
| COMMUNICATIONS AND RADIO SYSTEMS:            |   |   |   |   |   |   |   |   |   |      |
| AVIONICS R&D ACTIVITY (ARTY)                 |   |   |   |   |   |   |   |   |   | 10   |
| COMMUNICATIONS R&D COMMAND                   |   |   |   |   |   |   |   |   |   | 17   |
| COMMUNICATIONS-ELECTRONICS BOARD             |   |   |   |   |   |   |   |   |   | 16   |
| RESEARCH LABORATORY                          | • | • | ٠ | • | • | • | • | • | • | 81   |
| CAMOUFLAGE:                                  |   |   |   |   |   |   |   |   |   |      |
| MOBILITY EQUIPMENT R&D COMMAND               | ۰ | • | • | • | • | • | • | • | • | 44   |
| CONSTRUCTION AND STRUCTURAL ENGINEERING:     |   |   |   | • |   |   |   |   |   |      |
| CIVIL ENGINEERING LABORATORY                 | ٠ |   | ٠ |   |   |   |   |   |   | 64   |
| CONSTRUCTION ENGINEERING RESEARCH LABORATORY |   |   |   |   |   |   |   |   |   | 18   |
| ENGINEER WATERWAYS EXPERIMENT STATION        | • | ٠ | • | • | ٠ | • | ٠ | • | ٠ | 25   |
| COST ANALYSIS:                               |   |   |   |   |   |   |   |   |   |      |
| MATERIEL SYSTEMS ANALYSIS AGENCY             | • | • | • | • | ٠ | • | • | • | • | 38   |
| CRYOGENICS:                                  |   |   |   |   |   |   |   |   |   |      |
| LARGE CALIBER WEAPONS SYSTEMS LABORATORY     | • | • |   | • | • | • | • |   | • | 35   |
| DATA PROCESSING:                             |   |   |   |   |   |   |   |   |   |      |
| ATMOSPHERIC SCIENCES LABORATORY              | • |   |   |   |   |   | ٠ |   |   | 6    |
| COMMUNICATIONS R&D COMMAND                   |   |   |   |   | ٠ |   |   |   |   | 17   |
| CONSTRUCTION ENGINEERING RESEARCH LABORATORY |   |   |   |   |   | v |   |   |   | 18   |
| ELECTRONICS R&D TECHNICAL SUPPORT ACTIVITY . |   |   |   |   |   |   |   |   |   | 22   |

|                                                                                                                                                                                                                                                                                    | PAGE                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| DENTISTRY:                                                                                                                                                                                                                                                                         |                                                      |
| DENTAL RESEARCH INSTITUTE NTC                                                                                                                                                                                                                                                      | . 68<br>. 31<br>. 72                                 |
| EARTH SCIENCES:                                                                                                                                                                                                                                                                    |                                                      |
| ENGINEER WATERWAYS EXPERIMENT STATION                                                                                                                                                                                                                                              | . 25                                                 |
| ELECTRONIC WARFARE:                                                                                                                                                                                                                                                                |                                                      |
| ARNOLD ENGINEERING DEVELOPMENT CENTER                                                                                                                                                                                                                                              | . 90<br>. 20<br>. 21<br>. 95<br>. 100                |
| ENVIRONMENT:                                                                                                                                                                                                                                                                       |                                                      |
| COLD REGIONS R&E LABORATORY  COLD REGIONS TEST CENTER  DUGWAY PROVING GROUND  ELECTRONICS R&D TECHNICAL SUPPORT ACTIVITY  MATERIEL TESTING DIRECTORATE  MEDICAL BIOENGINEERING RESEARCH & DEVELOPMENT LABORATORY  RESEARCH INSTITUTE OF ENVIRONMENTAL MEDICINE  TROPIC TEST GENTER | . 13<br>. 14<br>. 19<br>. 22<br>. 39<br>. 40<br>. 48 |
| EQUIPMENT: GENERAL                                                                                                                                                                                                                                                                 |                                                      |
| MANUTE TOUR PRAILT DISTRIBUTE DE LA CARAMANTA                                                                                                                                                                                                                                      | 1. 1.                                                |

| <u>P</u>                           | AGE      |
|------------------------------------|----------|
| ESCAPE SYSTEMS:                    |          |
| FLIGHT TEST CENTER                 | 94<br>75 |
| FIRE CONTROL SYSTEMS:              |          |
| ARMAMENT DEVELOPMENT & TEST CENTER | 39<br>27 |
| WEAPONS CENTER                     | 86       |
| FOOD PRESERVATION:                 |          |
| NATICK RED COMMAND                 | 45       |
| FUELS AND LUBRICANTS:              |          |
| AERO PROPULSION LABORATORY         | 88       |
| AIR DEVELOPMENT CENTER             | 56<br>28 |
| MOBILITY EQUIPMENT R&D COMMAND     | 44       |
| GUIDED MISSILES:                   |          |
| ARMAMENT DEVELOPMENT & TEST CENTER | 89       |
| BALLISTIC RESEARCH LABORATORY      | 11       |
| FIELD ARTILLERY BOARD              | 26       |
| INFANTRY BOARD                     | 30       |
| KWAJALEIN MISSILE RANGE            | 34       |
| ORDNANCE MISSILE TEST FACILITY     | 43<br>78 |
| PACIFIC MISSILE TEST CENTER        | 79       |
| SPACE AND MISSILE TEST CENTER      | 102      |
| WHITE SANDS MISSILE RANGE          | 53       |

# KEY WORD OR ACTIVITY

| HUMAN FACTORS ENGINEERING:                                            |    |    |    |     |      |       |   |   |   |   |   |   |   | PAGE     |
|-----------------------------------------------------------------------|----|----|----|-----|------|-------|---|---|---|---|---|---|---|----------|
| AEROMEDICAL RESEARCH LABORATORY                                       |    |    |    |     |      |       |   |   |   |   |   |   |   | 1        |
| AEROSPACE MEDICAL RESEARCH LABORATORY HUMAN ENGINEERING LABORATORY    |    |    |    |     |      |       |   |   |   |   |   |   |   | 55<br>29 |
| HUMAN RESOURCES LABORATORY                                            |    |    |    |     |      |       |   |   |   |   |   |   |   | 97       |
| SCHOOL OF AEROSPACE MEDICINE                                          |    |    |    |     |      |       |   |   |   |   |   |   |   | 101      |
| HYDROFO1L:                                                            |    |    |    |     |      |       |   |   |   |   |   |   |   |          |
| DAVID W. TAYLOR SHIP R&D CENTER ENGINEER WATERWAYS EXPERIMENT STATION |    |    |    |     |      |       |   |   |   |   |   |   |   | 67<br>25 |
| INFANTRY WEAPONS:                                                     |    |    |    |     |      |       |   |   |   |   |   |   |   |          |
| INFANTRY BOARD                                                        | •  | •  | •  | •   | •    | •     | • | • | • | • | • | • | • | 30       |
| INFECTIOUS DISEASES:                                                  |    |    |    |     |      |       |   |   |   |   |   |   |   |          |
| MEDICAL RESEARCH INSTITUTE OF INFECT                                  | 01 | us | D. | 181 | KA S | 3 E.S |   |   |   |   |   |   |   | 42       |
| MEDICAL RESEARCH UN'T NO. 2, (TAIWAN)                                 |    |    |    |     |      |       |   |   |   |   |   |   |   | 7.1      |
| MEDICAL RESEARCH UNIT NO. 3, (EGYPT)                                  | •  | •  | •  | •   | •    | •     | • | • | • | • | • |   | • | 74       |
| INSECTS:                                                              |    |    |    |     |      |       |   |   |   |   |   |   |   |          |
| BIOSCIENCES LABORATORY                                                |    | _  |    |     |      |       |   |   |   |   |   |   |   | 62       |
| LETTERMAN ARMY INSTITUTE OF RESEARCH                                  |    |    |    | •   |      |       |   |   |   |   |   | ٠ | , | 36       |
| MEDICAL BIOENGINEERING R&D LABORARY                                   |    |    |    |     |      |       |   |   |   |   |   |   |   | 40       |

NA KVINE PARKET

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |   |   |   |   |   |   | PAGE     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|
| JET ENGINES:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |   |   |   |   |   |   |   |   |   |   |          |
| AERO PROPULSION LABORATORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |   |   |   |   |   |   |   |   |   |   | 88<br>58 |
| ARMAIN BROTHINGTHO DEVENOR CONT. TOTALIST 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | • | • | • | • | • | • | • | • | • | ٠ | • | ,,,      |
| LANDING AIDS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |   |   |   |   |   |   |   |   |   |          |
| AVIONICS R&D ACTIVITY (ARMY)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |   |   |   |   |   |   |   |   |   |   | 10       |
| AVIONICS LABORATORY (AIR FORCE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |   |   |   |   |   |   | 91<br>94 |
| LASERS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |   |   |   |   |   |   |   |   |   |   |          |
| AERO PROPULSION LABORATORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |   |   |   |   |   |   |   |   |   |   | 88       |
| AVIONICS LABORATORY (AIR FORCE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |   |   |   |   |   |   | 91       |
| AVIONICS RED ACTIVITY (ARMY)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |   |   |   |   |   |   |   |   |   |   | 10       |
| COMBAT SURVEILLANCE & TARGET ACQUISITION INSTITUTE OF DENTAL RESEARCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |   |   |   |   |   |   | 15<br>31 |
| LETTERMAN ARMY INSTITUTE OF RESEARCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |   |   |   |   |   |   |   |   |   |   | 36       |
| MISSILE RESEARCH & DEVELOPMENT COMMAND .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |   |   |   |   |   |   |   |   |   | 43       |
| RESEARCH LABORATORY (NAVY)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |   |   |   |   |   |   |   |   |   |   | 81       |
| SURFACE WEAPONS CENTER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |   |   |   |   |   |   |   |   |   |   | 83       |
| MAPPING:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |   |   |   |   |   |   |   |   |   |          |
| The Control of the Co |   |   |   |   |   |   |   |   |   |   |   |          |
| ENGINEER TOPOGRAPHIC LABORATORIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | • | • | • | • | • | • | • | • | • | • | • | 24       |
| MATERIALS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |   |   |   |   |   |   |   |   |   |   |          |
| BALLISTIC RESMARCH LABORATORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |   |   |   |   |   |   |   |   | , | 11       |
| MATERIALS LABORATORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |   |   |   |   |   |   |   |   |   | • | 98       |
| MATERIALS AND MECHANICS RESEARCH CENTER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   | , |   |   |   |   |   |   |   |   |   | 37       |

|                                                   | PAGE  |
|---------------------------------------------------|-------|
| MEDICAL RESEARCH:                                 |       |
| AEROMEDICAL RESEARCH LABORATORY                   | 1     |
| ARMED FORGES RADIOBIOLOGY RESEARCH INSTITUTE      | 108   |
| BIOSCIENCES LABORATORY                            | 62    |
| INSTITUTE OF DENTAL RESEARCH                      | 31    |
| INSTITUTE OF SURGICAL RESEARCH                    | 32    |
| LETTERMAN ARMY INSTITUTE OF RESEARCH              | 36    |
| MEDICAL BIOENGINEERING R&D LABORATORY             | 40    |
| MEDICAL RESEARCH INSTITUTE (NAVY)                 |       |
| MEDICAL RESEARCH INSTITUTE OF INFECTIOUS DISEASES |       |
| MEDICAL RESEARCH UNIT, NO. 2 (TAIWAN)             | 7.3   |
| MEDICAL RESEARCH UNIT, NO. 3 (EGYPT)              |       |
| RESEARCH INSTITUTE OF ENVIRONMENTAL MEDICINE      |       |
| SUBMARINE MEDICAL RESEARCH LABORATORY             |       |
| WALTER REED ARMY INSTITUTE OF RESEARCH            |       |
| WALTER RED ANTI INSTITUTE OF RESPARCH             | يئو ق |
| METEOROLOGY:                                      |       |
|                                                   |       |
| ATMOSPHERIC SCIENCES LABORATORY                   |       |
| COLD REGIONS TEST CENTER                          | 14    |
| ELECTRONICS R&D TECHNICAL SUPPORT ACTIVITY        |       |
| ENVIRONMENTAL PREDICTION RESEARCH FACILITY        |       |
| FLELD ARTHLERY BOARD                              | 26    |
| MINES:                                            |       |
| Company of matter at a                            |       |
| COASTAL SYSTEMS CENTER                            | 66    |
|                                                   |       |
| NAVAL ARCHITECTURE:                               |       |
| DAVID W. TAVLOR SHIP RED CENTER                   | 67    |

|                                                                               |   |   |   |   |   |   |   |   |   |   | PAGE                 |
|-------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|----------------------|
| NUTRITION:                                                                    |   |   |   |   |   |   |   |   |   |   |                      |
| LETTERMAN ARMY INSTITUTE OF RESEARCH NATICK R&D COMMAND                       | • | • | • | • | • | • | • | • | • | • | . 36<br>45           |
| OCEANOGRAPHY:                                                                 |   |   |   |   |   |   |   |   |   |   |                      |
| ARCTIC RESEARCH LABORATORY                                                    | • | • | • | • | • | • | • | • | • | • | 60<br>64<br>69       |
| OPTICS:                                                                       |   |   |   |   |   |   |   |   |   |   |                      |
| ENGINEER TOPOGRAPHIC LABORATORIES                                             | • | • | • | • | • | • | • | • | • |   | 24                   |
| PHYSICAL PROPERTIES:                                                          |   |   |   |   |   |   |   |   |   |   |                      |
| FRANK J. SEILER RESEARCH LABORATORY MATERIALS AND MECHANICS RESEARCH CENTER . | • | • | • | • | • | • | • |   | • | • | 95<br>37             |
| PHYSICAL SCIENCES:                                                            |   |   |   |   |   |   |   |   |   |   |                      |
| BALLISTIC RESEARCH LABORATORY                                                 | • | • | • |   |   | • | • | • | • | • | 11<br>95<br>96       |
| PSYCHOLOGY:                                                                   |   |   |   |   |   |   |   |   |   |   |                      |
| HEALTH RESEARCH CENTER                                                        |   |   |   |   |   | • | • | • |   |   | 71<br>36<br>80<br>47 |
| WALTER REED ARMY INSTITUTE OF RESEARCH                                        |   | • | • | • | • |   | • | • |   | • | 52                   |

|                                                       |   |   |   |   | PAGE       |
|-------------------------------------------------------|---|---|---|---|------------|
| RADAK                                                 |   |   |   |   |            |
| AVIONICS LABORATORY (ATR FORCE)                       |   |   |   |   | 91         |
| AVIONICS R&D ACTIVITY (ARMY)                          | ٠ | • | • | • | 10<br>1.5  |
| COMBAT SURVEILLANCE & TARGET ACQUISITION LABORATORY . | • | • | ٠ | • | 1.5<br>2.8 |
| HARRY DIAMOND LABORATORTES                            | ٠ | ٠ | • | • | 2 o<br>81  |
| · · ·                                                 |   |   |   |   | 100        |
| ROME AIR DEVELOPMENT CENTER                           | • | • | • | • | 100        |
| RADIOBIOLOGY:                                         |   |   |   |   |            |
| ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE          | • | • | • | • | 108        |
| ROCKET PROPULSION:                                    |   |   |   |   |            |
| ROCKET PROPULSION LABORATORY                          | • | • | • | • | 99         |
| SATELLITES:                                           |   |   |   |   |            |
| FLIGHT DYNAMICS LABORATORY                            |   |   |   | _ | 93         |
| ORDNANCE MISSILE TEST FACILITY (NAVY)                 |   | • |   | • | 78         |
| RESEARCH LABORATORY (NAVY)                            |   |   |   |   | 81         |
| SOCIAL SCIENCES:                                      |   |   |   |   |            |
| PERSONNEL RESEARCH AND DEVELOPMENT CENTER             |   |   |   |   | 80         |
| RESEARCH INSTITUTE FOR BEHAVIORAL AND SOCIAL SCIENCES | • | : | • | • | 47         |
| SYSTEM ANALYSIS:                                      |   |   |   |   |            |
| MATERIEL SYSTEMS ANALYSIS AGENCY                      |   |   | ٠ |   | 38         |

|                                      | PAGE         |
|--------------------------------------|--------------|
| ARGET ACQUISITION:                   |              |
| EROSPACE MEDICAL RESEARCH LABORATORY |              |
| OPOGRAPHY:                           |              |
| NGINEER TOPOGRAPHIC LABORATORIES     | . 24         |
| ORPEDOES:                            |              |
| URFACE WEAPONS CENTER                | . 83<br>. 84 |
| ROPICAL REGIONS:                     |              |
| ROPIC TEST CENTER                    | . 51         |
| ARHEADS:                             |              |
| RMAMENT DEVELOPMENT & TEST CENTER    | . 89         |
| ALLISTIC RESEARCH LABORATORY         | . 11         |
| TIELD ARTILLERY BOARD                | . 26         |
| EAPONS CENTER                        | . 86         |
| TEAPONS SYSTEMS:                     |              |
| TR DEFENSE BOARD                     | . 2          |
| IR DEVELOPMENT CENTER                |              |
| NFANTRY BOARD                        | + 30         |
| MATERIEL TESTING DIRECTORATE         | . 39         |
| INDERWATER SYSTEMS CENTER            | . 85         |
| MEAPONS LABORATORY                   | . 104        |